CE 0168

MMBB0211030 (1.1)

U990 User Guide

Congratulations on your purchase of the advanced and compact U990 phone by LG, designed to operate with the latest digital mobile communication technology.

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Bluetooth QD ID B013158

LIMITED WARRANTY

LG Electronics warrants to the original purchaser (end user) that the cellular product and its enclosed accessories will be free from defects in material and workmanship, according to the following terms and conditions:

1. WHAT THIS WARRANTY COVERS:

(1) The limited warranty for the handset remains in effect for a period of 12 (twelve) months based on the date of purchase (except for the battery, where the Warranty Period shall be 6 months).

(2) The limited warranty extends only to the original purchaser (end user) and is not assignable or transferable to any subsequent purchaser/end user.

(3) During the warranty period LG or officially appointed service agent will repair or replace any defective product or parts thereof at its discretion.

(4) This limited warranty is applicable to the customer/end user that purchased the product from an official dealer in the United Kingdom.

(5) The purchaser (end user) must retain the original purchase invoice/till slip in order to enforce this limited warranty.

2. WHAT THIS WARRANTY DOES NOT COVER:

(1) Defects or damages resulting from the misuse of this product.

(2) Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized repair, neglect, abuse, accident, alteration, improper installation, blown fuses, food or liquid spillage, acts of God and shipping damage.

(3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.

(4) The cost of delivery or transportation of the product to the dealer or officially appointed service center will be borne by the purchaser (end user).

(5) Products received for repair by the dealer or authorized service center after the product warranty has expired.

(6) Products that have had the serial number removed or defaced.

(7) THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED IN TERMS OF MARKETABILITY OR FITNESS FOR A PARTICULAR USE. SPECIFICALLY THE COMPANY WILL ACCEPT NO RESPONSIBILITY OR LIABILITY FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL AND SPECIAL LOSS OR DAMAGE CAUSED BY OR DUE TO FAILURE OF OPERATION OR MALFUNCTION OF THE PRODUCT, OR ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT.

(8) Damage resulting from the use of non-LG approved accessories.

(9) Scratches and damage caused by normal use.

(10) Products used outside published maximum ratings.

(11) Consumables such as fuses.

(12) Products that have been subject to an unauthorised removal or deactivation of the network operator-lock function.

Thank you for purchasing this LG U990 handset. In the unlikely event that your handset needs to be repaired, please contact 3 Customer Services for information on how to return your handset for repair by dialing 0870.7330.333 or 333. Please have your IMEI number ready when you call (this can be found under the battery).

Welcome to your U990 handset

User guides can be daunting things, can't they? But don't worry, we've made this one as simple as possible.

U990

User Guide

Your guide is designed to do two things.
First, there's an explanation on how to use your new U990, so finding your way around the handset will soon become the second nature.
Then there's an introduction to the wide range of services offered, to make sure you get the best from them. If all you want to do is power up and get going, that's fine.

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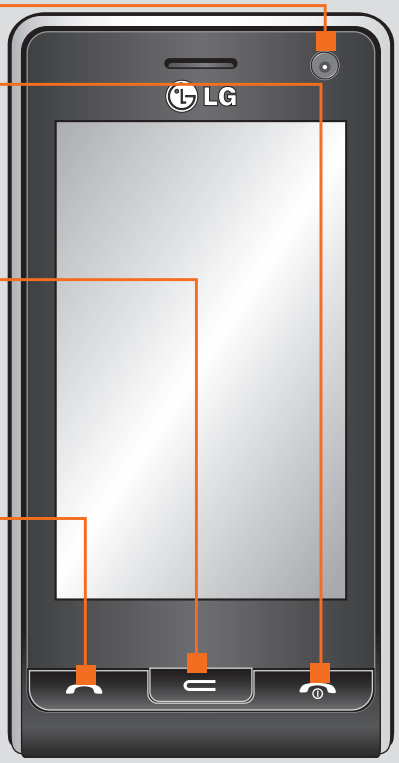
Guidelines for safe and efficient use

Read these simple guidelines. Breaking the rules may be dangerous or illegal.
Further detailed information is given in this manual.

Getting Started

Getting to know your phone



Camera mode

Holes for a carring strap

Charger, Cable, Handsfree connector

Lock/Unlock key (Image Stabilization key in Camera)

TIP! To connect the USB cable, wait until the phone has powered up and has registered to the network.

Inner camera lens

End/Power key

Ends or rejects a call.
Turns the phone on/off.

Clear key

Deletes a character with each press.

Send key

Dials a phone number and answers incoming calls.

Antenna

Capture button

Warning! Placing a heavy object on the phone or sitting on it while it is in your pocket can damage the phone's LCD and touch screen functionality.

Open view

Jog wheel

Zooms in or out when in camera or video mode. Scrolls through menus.

TIP! You can adjust volume level when enjoying music, game and during a call.

Warning! Close contact with a magnetic object may cause a malfunction of the wheel key.

Battery cover

Battery

Microphone

USIM Card Socket

Capture button

Memory card slot

Lock/Unlock key (Image Stabilization key in Camera)

Light sensor

Flash

Camera lens

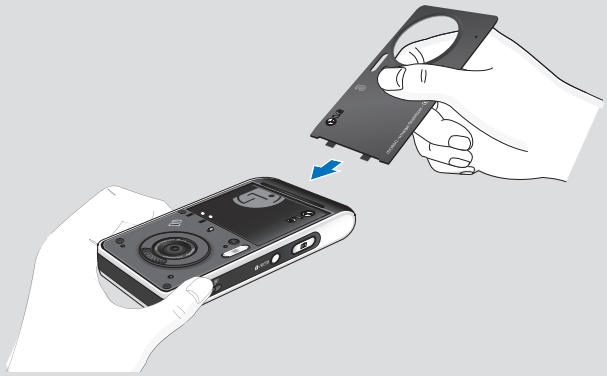
Camera mode

Getting Started

Installing the USIM and battery

1 Remove the battery cover

Press and hold down the battery release button and lift off the battery cover.

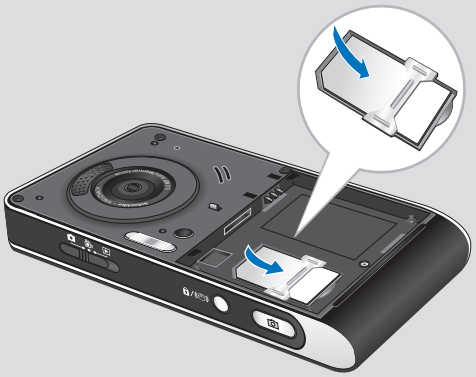


2 Remove the battery

Hold the top edge of the battery and lift the battery from the battery compartment by using the battery cover.

WARNING! Do not use your fingernail when removing the battery.

WARNING! Do not remove the battery when the phone is switched on, as this may damage the phone.



3 Install the USIM card

Slide the USIM card into the USIM card holder. Make sure that the gold contact area on the card is facing downwards. To remove the USIM card, pull it gently in the reverse direction.

TIP! The metal contact of the USIM card can be easily damaged by scratches. Pay special attention to the USIM card while handling. Follow the instructions supplied with the USIM card.

4 Install the battery

Insert the top of the battery fi rst into the top edge of the battery compartment. Ensure the battery contacts align with the terminals on the phone. Press down the bottom of the battery until it clips into place.

Getting Started

5 Charging your phone

Slide back the cover of the charger socket on the side of your U990. Insert the charger and plug into a mains electricity socket. Your U990 will need to be charged until a message reading Fully Charged appears on screen.

WARNING!

- You can make video call with charger connected.
  But if the battery capacity is under 10% the battery can be discharged when you use video call even though the charger is connected.

CAUTION!

- Do not force the connector as this may damage the phone and/or the charger.
- If you use the charger out of your own country, use an attachment plug adaptor for the proper configuration.
- Do not remove your battery or the USIM card while charging.
- There is risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the maker's instructions.

WARNING!

- Unplug the charger from the mains and phone during lightning storms to avoid electric shock or fire.
- Make sure that no sharp-edged items such as animal teeth or nails come into contact with the battery. There is a risk of this causing a fire.

Memory card

Installing a memory card

Expand the memory space available on your phone using a memory card. The U990 will support up to a 2GB memory card.

TIP! Memory card is an optional accessory.

1 Remove the battery and battery cover as before.

2 Insert memory card.
Slide the memory card into the slot at the top, until it clicks into place.
Make sure that the gold contact area is facing downwards.

3 Replace the battery cover as before.

TIP!

- The memory card must be removed or inserted only when necessary as its removal/insertion may lead to failure.
- When inserting an external memory card, remove and insert it again if its icon appears red. (If the icon remains red after re-insertion, the memory card may likely be damaged, so replace it with another one.)
- Removal of an external memory card or turning the mobile phone off while using the card (Store, Copy, Remove, Initialise, Play, etc.) may clear or initialise any stored file, which in turn may lead to severe damage on the card or malfunction of the phone.

Getting Started

- It is recommended the card be initialised within the mobile phone. The memory card includes some system space for any external memory file so some capacity may survive the initialisation of the memory card.
- It is always advised to make a backup of any data stored on your memory card.
- A few memory cards cannot be compatible with a phone, so please contact manufacuture for details.

Formatting the memory card

If your memory card is already formatted, you can begin using it. If your card isn't formatted you will need to do so.

1 From the standby screen select , then touch and choose **Phone settings**.

2 Touch **Memory manager** then chose **External memory**.

3 Touch Format and then confirm your choice.

4 Enter the password, if one is set, and your card will be formatted and ready to use.

TIP! To change your default storage destination, open Memory manager from the Phone settings menu and select Primary storage settings.

Note: If your memory card has existing content on, it will automatically be filed in the correct folder, so for example videos will be stored in the My Videos folder.

Transferring your contacts

To transfer your contacts from your USIM to your phone:

1 From the standby screen select , then touch and choose **Contacts**.

2 Touch **Settings** then **Copy**.

3 Choose **Handset to USIM** and touch **OK**.

4 Choose **All together** or **one by one** and touch **OK**.

Getting to know your U990

The icon indicator bar

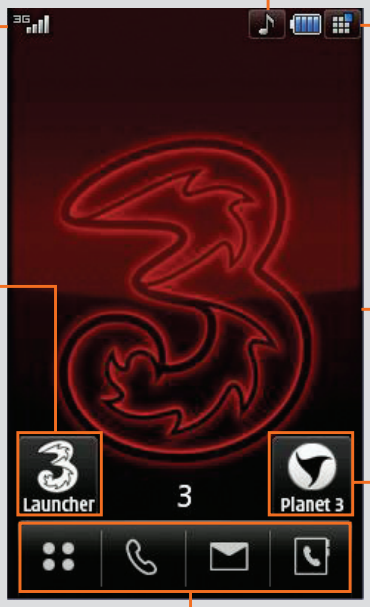
The icon indicator bar shows what operations are currently taking place, it also the displays the status of the battery and signal strength. This appears through all activities. The table beiow gives a brief explanation of the icons and their function.

Instant Launcher

Tap the icon, you can view some graphic information supplied by the network provider in the idle screen. After selecting desired contents, tap the OK icon in order to directly access published content.

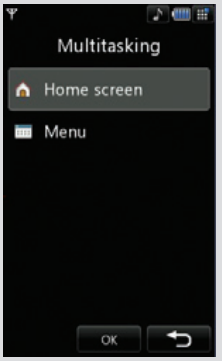
Quick keys

(see The quick keys on page 16 for details).



Profiles popup window

Main menu/ Multitasking history



The home screen

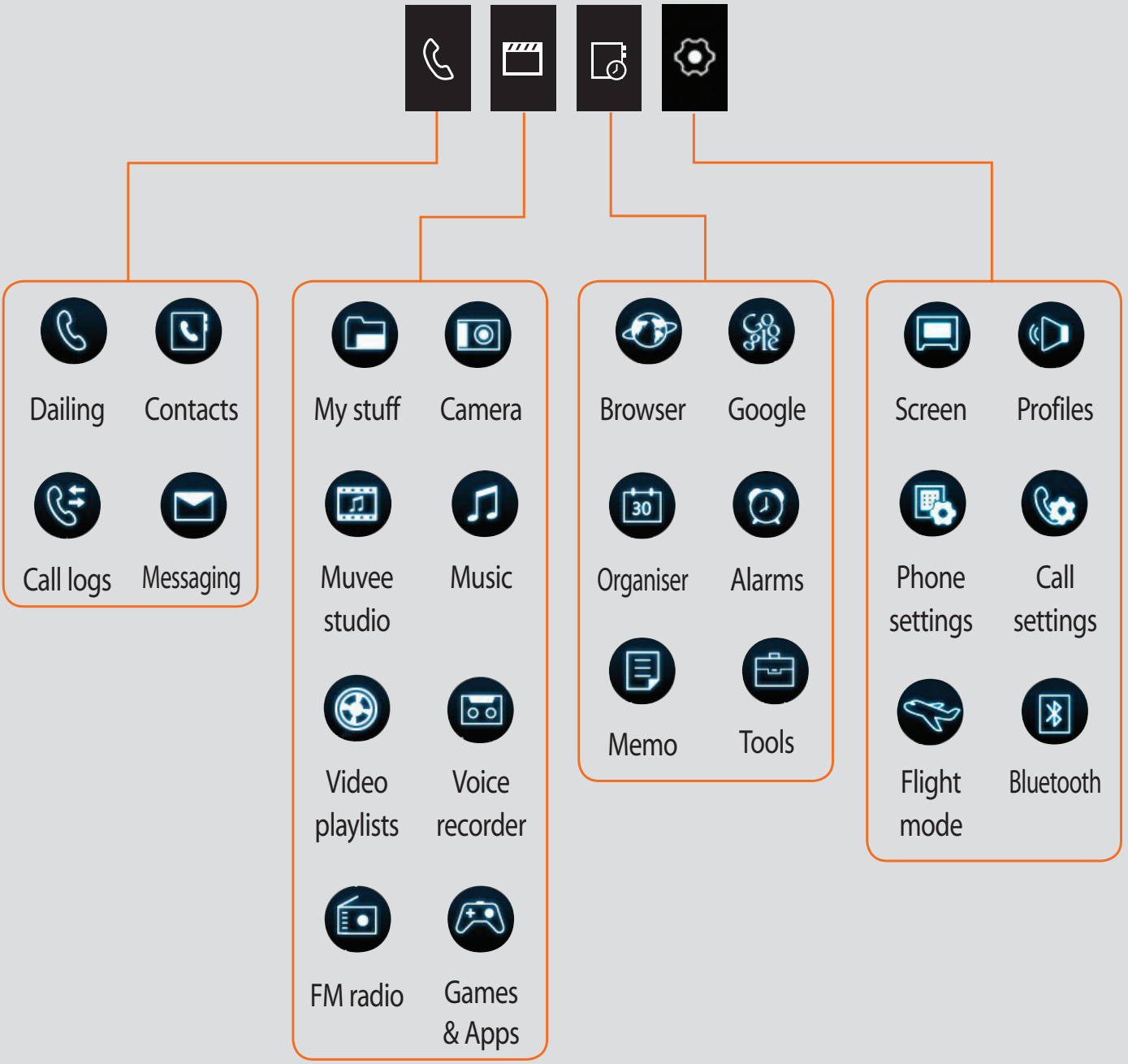
The central window of your start screen displays an image of your choice, when in use, this screen will display all of your functions and services.

Planet 3

This Handset supports Java™ so that you can download games from Planet 3, and play them on your handset.

Getting to know your U990

Menu map



Your standby screen

Whenever your U990 isn't in use it'll return to your home screen. From here you access all the menu options, make a quick call and view the status of your phone - as well as many other things.

Touchscreen tips

The home screen is also a great place to get accustomed to the touch screen.

- No need to press too hard, the touchscreen is sensitive enough to pick up on a light yet firm touch.
- Use the tip of your finger to touch the option you require. Be careful not to touch any other keys around it.
- When the screen light is off, press the Unlock/Lock key on the right hand side to restore the home screen.
- Don't cover the phone with a case or cover as the touchscreen will not work with any material covering them.

▲ Shortcut menu

Getting to know your U990

The quick keys

The quick keys provide easy, one-touch access to your most used functions.

- Touch to open the full menu which is separated into four sub-menus. Touch each sub-menu's vertical tab to view further options.
- Touch to bring up the touch dialling pad to make a call. Input the number as you would using a normal key pad and touch or press the . To initiate a video call with the number, press after inputting the number. See page 28 for details.
- Touch to access the Messaging options menu. From here you can create a new SMS or email, or view your message folder. See page 38 for details.
- Touch to open your address book Alphabetical tabs run vertically along the left side of the screen so you can easily fi nd the contact you're looking for. You can also create new contacts and edit existing ones. See page 33 for details.

Advice to the customer

In order to allow better antenna sensitivity LG suggest that you hold the handset as depicted in the fi gure below.

O

X

please do not cover the antenna area with your hand during a call and using a bluetooth connection. It may degrade speech quality.

The status bar

The status bar indicates, using various icons, things like signal strength, new messages and battery life as well as telling you whether your Bluetooth or GPRS is active.

Below is a table which explains the meaning of icons you're likely to see in the status bar.

Icon	Description
	Multitasking
	Applications running
	Network signal strength (number of bars will vary)
	No network signal
	Remaining battery life
	Battery empty
	New text message
	New voice message
	Message inbox is full

Icon	Description
	Message sending failed
	An alarm is set
	Vibrate profi le in use
	Normal profi le in use
	Outdoor profi le in use
	Silent profi le in use
	Headset profi le in use
	Calls are diverted
	GPRS in use
	EDGE in use
	Roaming
	WAP is in use
	Flight mode is selected
	Bluetooth is active
	HSDPA available
	3G available

Getting to know your U990

Icon	Description
	Indicates that BGM (Background Music) is playing. You can move to player by clicking this icon.
	Indicates that BGM (Background Music) is being paused. You can move to player by clicking this icon.
	While a bluetooth headset is connected, having a phone call is possible with mono functions enabled.
	While a bluetooth headset is connected, having a phone call and listening a music are possbile with both mono and stereo functions enabled.

Icon	Description
	While a bluetooth headset is connected, listening a music is possible with stereo functions enabled.
	Call reject - Indicates call reject option has been selected.

Changing your profile from the status bar

Touch the icon that represents your current profile setting in the status bar. Select a profile type, for example **Silent**, and touch **OK** to save and close.

Using the Multitasking function

Touch to open the Multitasking menu. From here you can view all the applications you have running and access them with one touch.

From any application, touch and select Home screen to return to the standby screen without exiting or closing the application.

When you have an application running in the background (e.g. a game or the FM radio), will appear in the status bar.

The shortcut menu

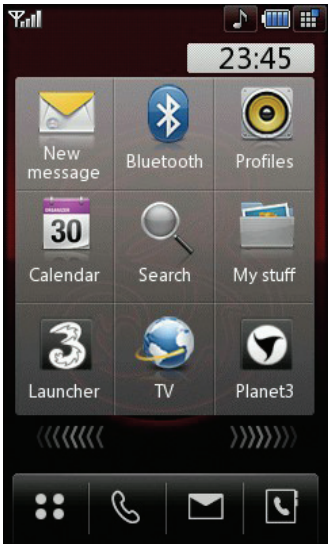
The shortcut menu provides nine further menu options. To open the shortcut menu:

1 Touch the standby screen once above the quick keys.

2 When the shortcut arrows appear, slide your finger horizontally across them in either direction.

3 The shortcut menu will open. Touch any of the nine options to open the application or a further menu.

4 To close the shortcut menu, slide your finger across the shortcut arrows again, in either direction.



Getting to know your U990

TIP! The quality of the conversation may change depending on network coverage. When the signal strength is below 2 bars, you may experience muting, call drop and poor audio. Please take the network bars as an indicator for your calls. When there are no bars, that means that there is no network coverage: in this case, you won't be able to access the network for any service (call, messages and so on).

U990 Buttons and Touchscreen

A few simple buttons and a high-resolution touchscreen make it easy to learn and use U990.

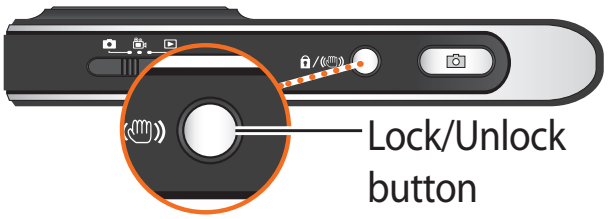
WARNING! For important information about safety, see page 153.

Locking U990 and Turning It On or Off

When you're not using U990 but you still want to receive calls and text messages, you can lock it.

When U990 is locked, nothing happens if you touch the screen. You can still listen to music and adjust the volume, and use the button on the included stereo headset to play or pause a song, or answer or end a call.

By default, if you don't touch the screen for a seconds, U990 locks automatically.



- This product's keys on the LCD screen are touch keys.
- Be sure to read "Cautions for Touch Keys" before using this product.

Making a Call

1. Make sure your phone is powered on.
2. In standby mode, tap the icon.
3. Enter a phone number including the area code. To edit a number on the display screen, simply press the key to erase one digit at a time.

- If you tap the , you can go back to previous menu.

4. Press the key or tap the to call.
5. When you want to finish, press the key.

Making a voice/video call

1. Make sure your handset is powered on.
2. Enter the number including the full area code.

- To delete a digit press the key. To delete all digits press and hold the key.

3. Press the key to make a voice call. Tap the icon and select the [Make video call] to make a video call.
4. Press the key to finish the call.

Making an international call

1. Tap twice the * + key or tap and hold the 0 ␣ key for the international prefix. The '+' character can be replaced with the international access code.
2. Enter the country cod e, area code, and the phone number.
3. Press the key or tap the to call.

Ending a Call

When you have finished a call, press the key.

Making a Call From the Contact list

You can store names and phone numbers dialled frequently in the USIM card as well as the phone memory known as the Contact list.

You can dial a number by simply looking up a name in the contact list.
For more details on the Contacts feature, please refer to page 33.

General Functions

Adjusting the Volume

Use the wheel on the backside of the phone to adjust the volume during a call.

Answering a Call

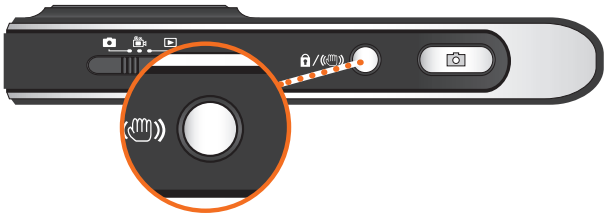
When you receive a call, the phone rings and the animated phone icon appears on the screen. If the caller can be identified, the caller's phone number (or name/picture if stored in your Contact list) is displayed.

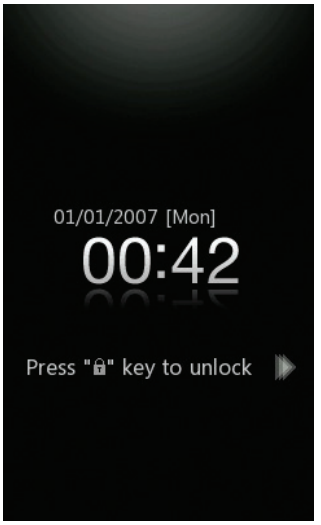
1. Press the key to answer an incoming call.
2. End the call by pressing the key.

> **TIP!** You can answer a call while using the address book or other menu features.

Lock Touchscreen and Keypad

Keypad Lock Mode can be activated by pressing the key.





Signal Strength

If you are inside a building, being near a window may give you better reception. You can see the strength of your signal by the signal indicator ( ) on your phone's display screen.

Changing the Text Input Mode

1. When you are in a field that allows characters to be entered, you will notice the text input mode indicator in the upper right corner of the display.
2. If you want to change modes, tap ⬆ to step through the available modes.

- You can go back to previous letter mode by long press ⬆ .

Using the T9 Mode

The T9 predictive text input mode allows you to enter words easily with a minimum number of key presses. As you press each key, the phone begins to display the characters that it thinks you are typing based on a built-in dictionary. As new letters are added, the word changes to reflect the most likely candidate from the dictionary.

1. When you are in the T9 predictive text input mode, start entering a word by tapping keys 2 to 9 .

- The word changes as letters are typed-ignore what's on the screen until the word is typed completely.

Example

Press 4 6 6 3 to type Good.

TIP! You can select a different T9 language from the menu option * . The default setting on the phone is T9 disable mode.

- If the desired word is missing from the word choices list, add it by using the ABC mode.

General Functions

2. Enter the whole word before editing or deleting any key strokes.
3. Complete each word with a space by tapping the 0␣ key.

To delete letters, press ⊂. Press and hold down ⊂ to erase the letters continuously.

TIP! To exit the text input mode without saving your input, press ⏻. The phone returns to the idle screen.

Using the ABC Mode

Use the 2 to 9 keys to enter your text.

1. Tap the key labelled with the required letter:

- Once for the first letter.
- Twice for the second letter, and so on.

2. To insert a space, tap the 0␣ key once. To delete letters, press the ⊂ key. Tap and hold down the ⊂ key to erase the letters continuously.

TIP! If you select Insert menu on writing the message, you can insert the symbol, image, sound, text template and contact point.

Using the 123 (Numbers) Mode

The 123 Mode enables you to enter numbers in a text message (a telephone number, for example).

Tap the keys corresponding to the required digits before manually switching back to the appropriate text entry mode.

TIP! You can also add numbers whilst remaining in letter modes by tapping and holding the desired key.

Using the Symbol Mode

The Symbol Mode enables you to enter various symbols or special characters.

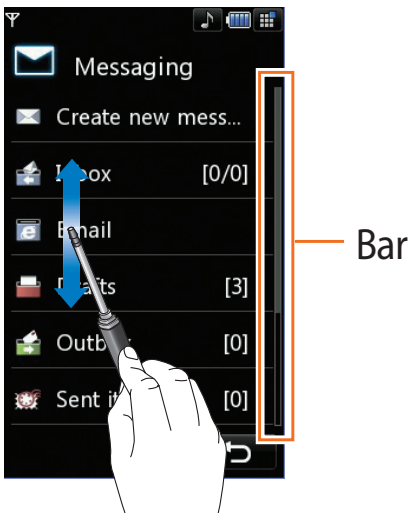
To enter a symbol, tap the *%& key.

Menu tree

Icon	Description
	Used to enter menu directly.
	Used to make a call or send text/multimedia message.
	Used to send text/ multimedia message and to view the messages in the inbox. You can activate various functions related to messages.
	Used to access the phonebook list.

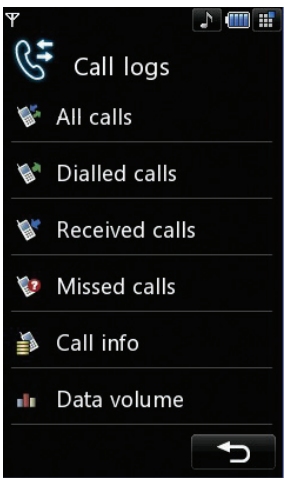
If there is a bar on the right side of menu, you can press and hold a menu and scroll up/down in order to see hidden menus.

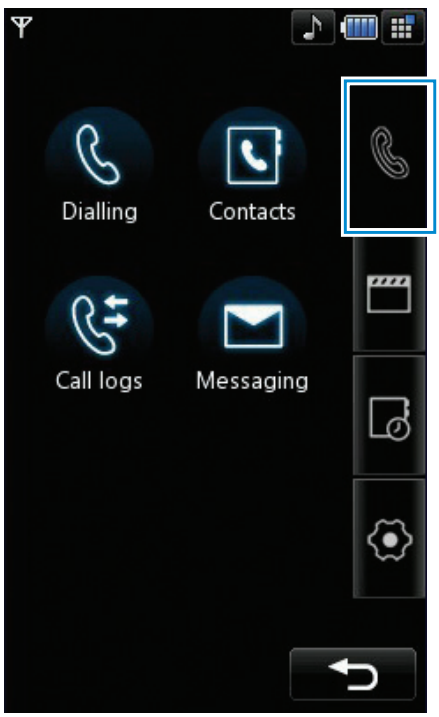
Example



If there is no bar on the right side of menu, that means there is no hidden menu (all of menus will be shown in a screen)

Example





1 Call menu

Call menu

Dailing

Making a call or video call

1 Touch to open the keypad.

2 Key in the number using the keypad. To delete a digit press the C hard key.

3 Touch or hard key to initiate the call. Touch to make a video call.

4 To end the call press the hard key

TIP! To enter + for making an international call, touch twice.

TIP! Press the lock/unlock button to lock the touchscreen to prevent calls being made by mistake.

TIP! To bring up the keypad during a call, touch .

Making a call from your contacts

1 From the standby screen touch to open the address book.

2 Select the alphabetical tab corresponding to the first letter of the contact you'd like to call. So, for 'Home', select **E-H**.

3 From the list, touch the contact you'd like to call and select the number to use if you have more than one saved.

4 Touch **Call.**

TIP! You can search your contacts from the call screen. Touch and choose Search contacts. Scroll through your contacts or enter the first few digits of a number to limit the list.

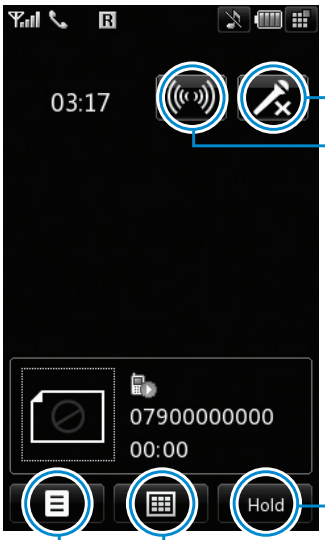
Answering and rejecting a call

When your phone rings press the hard key to answer the call.

Press the hard key to mute the ringing. This is great if you've forgotten to change your profile to Silent for a meeting.

Press the hard key a second time to reject the incoming call.

In-call options



Mute - Touch to turn off the microphone so the person you are talking to cannot hear you.

Speaker - Touch to turn on the speaker phone.

Hold - Touch to put a caller on hold. Touch **Resume** to continue your conversation.

Keypad - Touch to open a numerical keypad for navigating menus with numbered options. For example when dialling call centres or other automated telephone services.

Options - Choose from a list of further in-call options, including **Go to contacts** and **Go to messages** so you can check your messages and add contacts during a call. You can also end the call from here by touching **End call.**

Adjusting the call volume

To adjust the volume during a call turn the jog wheel clockwise to increase the volume or anti-clockwise to decrease the volume.

Call menu

Speed dialling

You can assign a frequently-called contact a speed dial number.

1 Touch and select **Contacts**.

2 Touch **Speed dials**.

3 Your Voicemail is already set to speed dial 1. You cannot change this. Touch any other number to assign it a speed dial contact.

4 Your address book will open. Select the contact you'd like to assign to that number by touching their phone number once.

To call a speed dial number, touch from the standby screen then press and hold the assigned number until the contact appears on screen. The call will initiate automatically, there's no need to press .

Making a second call

1 During your initial call, touch and select **Add new call**.

2 Dial the number or search your contacts (see **Making a call** on page 28 for details).

3 Press to connect the call.

4 Both calls will be displayed on the call screen. Your initial call will be locked and the caller put on hold.

5 Touch Swap to change between the calls.

6 To end one or both calls press and select **End** followed by **All** or **Active**.

> **TIP!** You can combine your calls by selecting then **Join**. Check that your network provider supports conference calling.

Note: You will be charged for each call you make.

Turning off DTMF

DTMF allows you to use numerical commands to navigate menus within automated messages. DTMF is switched on as default.

To turn it off during a call (to make a note of a number for example) touch and select DTMF off.

Viewing your call logs

Touch and select **Call logs**.

Choose to view:

All calls - View the complete list of all your dialled, received and missed calls.

Dialled calls - View the list of all the numbers you have called.

Received calls - View the list of all the numbers that have called you.

Missed calls - View the list of all the calls you have missed.

Call info - View the charges applied to your dialled numbers (this service is network dependant, some operators are unable to support this) and the call duration of all your calls; received and dialled.

Data volume - View the amount in kilobytes of all your received and sent data.

TIP! From any call log touch and **Clear** to delete all the recorded items.

TIP! Touch any single call log entry to view the date, time and duration of the call.

Using call divert

1 Touch , select and choose **Call settings**.

2 Touch **Call divert** and choose **Video calls** or **Voice calls**.

3 Choose whether to divert all calls, when the line is busy, when there is no answer or when you are not reachable.

4 Enter the number you want your calls to be diverted to and touch **Divert**.

TIP! To turn off all call diverts, choose **Deactivate all** from the **Call divert** menu.

Using call barring

1 Touch , select and choose **Call settings**.

2 Touch **Call barring** and choose **Video calls** or **Voice calls**.

Call menu

3 Choose any or all of the six options:

All outgoing

Outgoing international

Outgoing international calls except home country

All incoming

Incoming when abroad

4 Enter the call barring password, which is set to 0000 as default.

> **TIP!** Select **Fixed dial number** to turn on and compile a list of numbers which can be called from your phone. You'll need your security code which is factory set to 0000. Only numbers included in the fixed dial list can be called from your phone.

Changing the common call settings

1 Touch , select and choose **Call settings**.

2 Touch **Common settings**. From here you can amends the settings for:

Call reject - Select **On** or **Off** and choose to reject all calls, of those from specific groups, contacts or from unregistered numbers (those not in your contacts).

Send my number - Choose whether your number will be displayed when you call someone.

Auto redial - Choose **On** or **Off**.

Answer mode - Choose whether to answer the phone using the key or any key.

Minute minder - Select **On** to hear a tone every minute during a call.

BT answer mode - Select **Hands-free** to be able to answer a call using a Bluetooth headset or select **Handset** to press a key on the handset to answer a call when using a Bluetooth headset.

Save new number - Whenever the connected call is terminated, this menu allows you to determine whether you are going to save the number (unregistered) in your phone book.

Changing your video call settings

1 Touch , select and choose **Call settings**.

2 Touch **Video call settings**.

3 Choose the settings of your video calling. Determine whether to **Use private image** and select one, switch on the **Mirror** (so you can see yourself on screen) and select an **Image size**.

Contacts

Search

Searching for a contact

There are two ways to search for a contact:

From the standby screen

1 From the standby screen touch to open the address book.

2 Select the alphabetical tab corresponding to the first letter of the contact you'd like to view. So, for 'Home' select **E-H**.

TIP! You can search by group by touching and selecting **Search by group**. This will bring up a list of all your groups.

Call menu

From the main menu

1 Select **Contacts.**

2 Touch and enter the first few letters of the contact you'd like to find using the keypad. Or select to switch to address book view and select the tab corresponding to the first letter of the name.

3 Your address book will bring up a list of the contacts corresponding to the letters you've entered.

> **TIP!** You can switch between the keypad search screen and the alphabetical address book screen by touching the or icon in the top right corner of the screen.

Add new

Adding a new contact

1 From the standby screen touch and select **Contacts**.

2 Select **Add new**.

3 Choose whether to save the contact to your **Handset** or **USIM**.

4 Enter the first name and last name of your new contact. You do not have to enter both, but you must enter one or the other.

5 Enter up to five different numbers and assign a number type for each. Choose from **Mobile, Home, Office, Pager, Fax, VT** and **General**. Touch **OK**.

6 Add up to two email addresses.

7 Assign the contact to a group. Choose from **No group, Family, Friends, Colleagues, School** or **VIP.**

8 You can also add a **Homepage, Homepage address, Home address, Company name, Job title, Company address** and a **Memo**.

9 Touch **Save** to save the contact and return to the Contacts menu.

> **TIP!** You can create customised groups for your contacts, see **Groups** on page 35.

Speed dials

This menu allows you to configure speed dial numbers. You can select a number as a speed dial from 3 to 9. You can configure speed dial numbers for any of the 7 numbers for a specific contact address so that a contact address may have multiple speed dial numbers.

Groups

This menu allows you to manage group information. You can also configure ringtone for a group so that the group ringtone sounds when a call from a specific contact address within that group arrives.

> **TIP!** You can edit an existing group by highlighting it and touching . Choose to Add a member to the group from your contacts, assign a Group ringtone, Rename the group or Delete a group.

Settings

Display data

You can set View contacts from/Name display.
(Default setting is Handset & USIM/First name first.)

Synchronise contacts

You can connect to server for synchronization.

Copy

You can copy contacts from the phone memory to the USIM or from the USIM to phone memory.
You can copy all items or one at a time.

Move

You can move contacts from the phone memory to the USIM or from the USIM to phone memory. You can move all items or one at a time.

Backup contacts

You can backup all contacts data to external memory.

Call menu

Restore contacts

Allows you to restore contacts.

Clear contacts

This menu deletes contact address information. You can delete contact addresses saved in the handset memory and you can delete the numbers saved on the USIM card.

Memory info.

You can check the status of USIM or phone memory.

My business card

You can compose a business card. If you select Edit, you can make a new business card.

Information

Service dial numbers

This menu allows you to make a call to one of the numbers provided by 3 Customer Service by moving the highlight to the desired number and pressing the key. (E.g. 3 customer service, mail, 3 customer finance, etc.)

Own number

Allows you to display your phone number in the USIM card.

Call logs

You can access the call register by pressing the key. Different icons show you the type of the recent calls registered in the list (see following page for icon description).

- You can view missed, received, dialled and entire call records. Each call record menu provides the following functions.
- You can make a voice or video call to the number in the call record.
- You can save the number in the call record to the Contacts.

- You can send a message to the number in the call record.
- You can view detailed information about the call records such as the date, time and call duration.
- You can clear call records.

All calls

This menu allows you to view all of the missed, received, and dialled call records. You can make a call, or send a message to the number you have selected from the records. You can also save the number in the Contacts.

Received video call

Dialled video cal

Missed video call

Reject video call

Received voice call

Dialled voice call

Missed voice call

Reject voice call

Received skype call

Dialled skype call

Missed skype call

Reject skype call

Dialled calls

Allows you to view dialled call records, make a call, send a message and save the number.

Received calls

Allows you to view received call records, make a call, send a message and save the number in the Contacts.

Missed calls

Allows you to view missed call records, make a call, send a message and save the number in the Contacts.

Call menu

Call info

Call durations

Shows call duration time by type. Tap the and select the [Clear] to reset.
A security code will be requested.

- **All calls:** Displays overall call duration.
- **Dialled calls:** Displays dialled call duration.
- **Received calls:** Displays received call duration.
- **Last call:** Displays the duration of the last call made in hours/minutes/seconds.

Call costs

Allows you to check the cost of Last call and All calls.

Data volume

You can check Received, Sent, and All data volumes.

Messaging

Your U990 combines SMS, MMS and email into one intuitive and easy to use menu.

There are two ways to enter the messaging centre:

1 Touch from the standby screen.

2 Touch from the standby screen, then **messaging**.

Sending a message

1 Touch then choose **Create new message**.

2 Choose **Message** to send an SMS or MMS. Or to send an email, choose **Email**. See page 45 for details.

3 A new SMS will open.

4 Touch , or then **Insert,** to add an image, video, sound or symbol.

5 Touch **Send**. Enter the phone number or touch **Contacts** to open your contacts list. You can add multiple contacts.

WARNING! You will be charged per 160 character text message for each person that you send the message to.

Entering text

There are four ways to enter text: T9 predictive, Abc manual, Keyboard and Handwriting recognition.

To switch between text entry methods touch the corresponding icon at the top of the screen.

Handwriting recognition - Choose **Handwriting-Screen** or **Handwriting-Box**

T9 predictive text - Touch to turn on T9 predictive text then select T**9 abc, T9 Abc** or **123**.

Abc manual - Choose **Abc, ABC** or **123**

To use the keyboard, touch and select **keyboard** from the drop down menu.

Use to scroll through the different keyboard types in each text entry mode (for example, capitals or lowercase).

To enter a space touch **0**.

To change between upper, lower and title case press .

To delete a character use the **C** hard key below the screen.

To enter a symbol touch *%&.

T9 predictive

In T9 mode you will see .

T9 mode uses a built-in dictionary to recognise words you're writing based on the key sequences you touch. Simply touch the number key associated with the letter you want to enter, and the dictionary will recognise the word once all the letters are entered. For example, press 8, 3, 5, 3, 7, 4, 6, 6, 3 to write 'telephone'.

If the word you want doesn't appear, touch * or **Spell**. If you touch **Spell** you can then enter the word using Abc manual mode and your word or name will be added to the dictionary.

Call menu

Abc manual

In Abc mode you will see T9 .

In Abc mode you must touch the key repeatedly to enter a letter. For example, to write 'hello', touch **4** twice, **3** twice, **5** three times, **5** three times again, then **6** three times.

Keyboard

In Keyboard mode the screen flips to landscape and a full qwerty keyboard appears on screen.

Simply touch each letter to write your message and press:

- ⇧ to switch to upper case
- ␣ to add a space

TIP! Keyboard mode predicts and shows what you will type in next. These words are predicted based on the sentences you have typed in so far. If you do not wish to use the suggested words, keep typing in new words. If you wish to use the suggested words, press the space bar to confi rm them.

Handwriting recognition

In Handwriting mode you simply write on screen and your U990 will convert your handwriting into your message. Select **Screen** or **Box** depending on your preferred view.

WARNING! You may find it easier to use a stylus in this mode, please remember to press lightly to protect your screen from damage.

Handwriting recognition

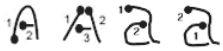
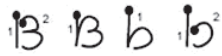
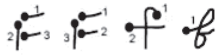
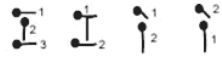
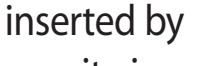
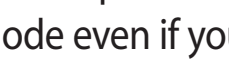
Handwriting recognition translates stylus gestures into letters, numbers or other character, and displays these characters as text. Handwriting recognition is only active in places where text can be entered.

Note: Most letters can be written using different stroke styles. See the tables below. The style does not determine case. The position on the screen decides case, not the style.

Alphabet

If you select capital letter mode (ABC), letters you type will be inserted by capital letters even if you write in small letters, vice versa.

ex) It would be inserted as capital letter of 'F' on capital letter mode even if you write in small letter of 'f'.

Letter	Strokes
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	

Call menu

Accented characters

Accent	Strokes
Space	
Backspace	
Enter	
Switching the text mode	

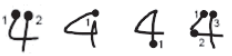
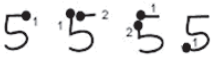
Punctuation marks

Mark	Strokes
Period .	
At @	

Note: Start each stroke at the dotted end.

Numbers

Numbers are written above the arrow.

Number	Strokes
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

Create new message

Sending a message

You can write and edit text message, checking the number of message pages.

1. To make text input easier, use T9.
2. If you tap icon, you can view submenus as follow:

- **Insert:** You can insert images, video, sounds, symbols, template, emoticon, name & number, new slide or subject.
- **Save to drafts:** You can save the message in drafts.
- **Input method:** Select the desired dictionary mode.
- **Writing language:** You can select the language.
- **Add to dictionary:** You can add a word to the dictionary.

Email

To send an email, you should first set up an email account (For further details on how to set up an email account, see the page 45).

Message edit

1. Select Email from the Create new Message menu.
2. You can input up to 20 addresses in the To, Cc fields and up to 10 addresses in the Bcc field.
3. Input the title of the mail to be sent in the Subject field.
4. Input the content of the mail to be sent in the Message field.
5. You can attach up to 10 files in a message.
6. When you have finished writing a message, select the [send].

You can send the message to outbox for Background sending.

Call menu

Inbox

You will be alerted when you have received messages. They will be stored in the Inbox.

In the Inbox, you can identify each message by icons.

If the phone shows 'No space for USIM message', you have to delete some messages from the Inbox. If the phone displays 'No space for message', you can make space of each repository by deleting messages, media and applications.

*** USIM message**

USIM message means the message exceptionally stored in USIM card. You can move this message to the phone.

For notified multimedia message, you have to wait for downloading and processing of the message.

To read a message, select one of the messages by tapping the View [View] icon.

- **Reply to:** You can reply to the sender.
- **Forward:** You can forward the selected message to another party.
- **Make voice call:** You can make a voice call.
- **Make video call:** You can make a video call.
- **Delete:** You can delete the current message.
- **Creat new message:** You can write a new message or an email.
- **Copy:** In case of SMS, you can copy the message into handset or USIM.
- **Move:** In case of SMS, you can move the message into handset or USIM.
- **Filter:** Displays messages by desired message types.
- **Mark/Unmark:** You can select one or more messages for multiple deletion.
- **Message information:** You can view information about received messages.

Email

When you access this menu, you can either connect to your remote mailbox to retrieve your new email messages, or you can view the previously retrieved email messages without logging in to the email server.

You can check the saved emails, drafts, outbox, and sent emails. In the mailbox, up to 300 emails are stored.

Viewing email message list

Tap the icon, you can view submenus as follow:

- **Reply:** Creates a reply to the selected email.
- **Forward:** Forwards the selected email message to others.
- **Delete:** Deletes the email.
- **Create new message:** Creates a new message or Email.
- **Mark/Unmark:** Use mark/unmark option for multiple deletion.
- **Set as read/unread:** You can set the selected email to read or unread.
- **Message info.:** Brief information on the message including size, type, date, time and filenames.

Viewing an email message

Tap the icon, you can view submenus as follow:

- **Reply:** Creates a reply to the selected email.
- **Forward:** Forwards the selected email message to others.
- **Delete:** Deletes the email.
- **Save address:** Saves the sender's address to Contacts.
- **Create new message:** Creates a new message.
- **Use:** Extracts the number, email address or Web address from email message.
- **View attachment:** Shows the attached file.

Call menu

- **View to address:** Shows the email addresses of the recipients and reference (Cc).
- **Message information:** Brief information on the message including size, type, date, time and filenames.

Drafts

Using this menu, you can preset up to five multimedia messages that you use most frequently. This menu shows the preset multimedia message list.

The following options are available.

- **Send:** You can send the selected message.
- **Delete:** Deletes the message you choose.
- **Create new message:** You can write a new message or an email.
- **Mark/Unmark:** You can select one or more messages for multiple deletion.
- **Filter:** Displays messages by desired message types.
- **Message information:** To view the information of the message.

Outbox

The Outbox is a temporary storage place for messages waiting to be sent. Failed messages are also placed in Outbox. For example, Emails will be placed in Outbox if the Email account is not correctly configured.

Tap the icon, you can view submenus as follow:

[For sending / waiting messages]

- **Create new message:** You can write a new message or an Email.
- **Cancel sending:** You can stop sending /waiting status.
- **Message information:** You can check the message type, date and time and where it's saved.

[For failed message]

- **Resend:** Resends the selected message.

- **Delete:** Deletes the current message.
- **Save to drafts:** You can move the selected message to Drafts.
- **Create new message:** You can write a new message or an Email.
- **Message information:** You can check the message type, date and time and where it's saved.

Sent items

This menu allows you to view the messages which are already sent.
You can check the time and the contents of message.

Templates

Text template

You can add, edit, and delete frequently used useful phrases using the left soft key [Options].

> **TIP!** Depending on your service provider, useful phrases are saved as a default.

Multimedia templates

You can create, edit and view available templates when creating multimedia messages. Five types of template (Birthday, Greeting, Holiday, Thanks, Sorry) are saved by default.

The following options are available.

- **Add new:** You can create a new multimedia template.
- **Write multimedia message:** Creates a multimedia message with the selected template.
- **Edit:** Edits the selected template.
- **Delete:** Deletes the selected template. (Not available for default five templates)
- **Delete all:** Deletes all created templates. (Not available for default five templates)

Call menu

Emoticons

You can add, edit, and delete frequently used emoticons.

You can save emoticons that are frequently used in the input window in advance.

Settings

Text message

Text message centre

The number of the Text message gateway is pre-loaded in your 3 handset and you should not change this. If you delete or change this by mistake contact 3 Customer Services for support.

Delivery report

Allows you to activate or deactivate the report function. When this function is activated, the network informs you whether or not your message has been delivered.

Validity period

Allows you to set the length of time for which your text messages will be stored at the Text message centre while attempts are made to deliver them to the recipient.

Message types

Text, Voice, Fax, X.400, Email
Usually, the type of message is set to Text. You can convert your text into alternative formats. Contact your service provider for the availability of this function.

Character encoding

Auto/Default alphabet/ Unicode.

- **Auto(default):** Message with single byte character is normally encoded in Default alphabet(GSM7). Message with double-byte character is automatically encoded in unicode(UCS2).
- **Default alphabet:** Message with even double byte character is encoded in single byte. Please note that double byte characters with accent may be converted into single byte character without accent.

- **Unicode:** Message is encoded in double byte. Please note that you may be charged double.

Send long test as

Select a long text message as Multiple SMS or MMS.

Multimedia message

Retrieval mode

You can set the retrieval mode using Home network and Roaming network respectively. If you select **Automatic**, you will receive multimedia messages automatically. If you select **Manual**, you will only receive a notification message in the inbox and then you can decide whether to download multimedia messages or not.

Delivery report

This menu allows you to determine whether to request a delivery confirmation mail to a recipient, and whether to allow sending delivery confirmation mail to a sender.

- Request report: Determines whether to request a delivery confirmation mail for a Multimedia message.
- Allow report: Determines whether to allow sending a delivery confirmation mail for a delivery confirmation mail request.

Read reply

This menu allows you to determine whether to request a read confirmation mail to a recipient, and whether to allow sending read confirmation mail to a sender.

- Request reply: Determines whether to request a read confirmation mail for a Multimedia message.
- Allow reply: Determines whether to allow sending a read confirmation mail for a read confirmation mail request.

Priority

You can select the priority level of the messages (Low, Normal and High).

Call menu

Validity period

This menu allows you to configure the term of validity for a message when transmitting a Multimedia message. The message will be saved in the Multimedia server only for the configured term.

Slide duration

This menu allows you to configure the duration of each page when writing the message.

Creation mode

Allows you to configure the message mode.

Delivery time

Configures the delivery time of message to the recipient. The Multimedia message centre will deliver the message after the delivery time.

Multi msg centre

Allows you to configure network information such as the MMSC and the WAP gateway, to send a multimedia message.

Using the left soft key [Options], you can activate, add or delete a profile. A profile name selected by a checkmark is the currently configured value. You can view and edit the contents of the profile in edit mode by pressing the right soft key [Edit]. The edit screen also appears when creating a new profile under Options. The meaning of each item is given below.

- **Title:** Profile name.
- **MMSC URL:** Enter the multimedia message centre URL.
- **MMS Proxy:** Enter the WAP gateway address and port number.
- **Connection mode:** Select one of the connection mode. (TCP with Proxy, TCP without Proxy, UDP)
- **Access point:** Specify the access point name. (see WAP connection settings.)

Tap the Save [Save] icon to save the changes and complete Multimedia msg. centre setting.

Email

You can configure settings for receiving and transmitting emails.

1. **Email accounts:** You can create or configure an email account including the email server and user ID. You can edit a selected email account by tapping the icon and select the [Edit].

Tap the icon, you can view submenus as follow:

- **Add new:** Create a new email account.
- **Edit:** To edit the selected email account.
- **View:** You can see the Email.

Creating a new email account

1. Select Add new from the Email account menu options.
2. The following items need to be configured.

Title - Enter a name for this account.

My name - Enter your name.

Username - Enter the account's username.

Password - Enter the account's password.

Email address - Enter the account's email address.

Reply email address - Enter the 'reply to' email address.

Outgoing mail server - Enter the account's details.

Incoming mail server - Enter the account's details.

Maximum receive size - Choose the size limit of your emails, the maximum is 1MB.

Mailbox type - Enter the mailbox type, POP3 or IMAP4.

Save to server - Choose whether to save your emails to the server. For IMAP4 accounts copies are always saved.

Save sent mail into - Choose where to save your IMAP4 emails. For POP3 accounts copies are always saved on the phone.

Call menu

Access point - Choose your Internet access point. Press + to use a preset access point.

Auto retrieve - Choose whether to fetch your new emails automatically.

Advanced settings - Choose whether to use the advanced settings.

SMTP port number - Normally, this will be 25.

Incoming server port - Normally, this is 110 for POP3 accounts and 143 for IMAP4 accounts.

SMTP authentication - Choose the security settings for the outgoing mail server.

SMTP username - Enter the SMTP username.

SMTP password - Enter the SMTP password.

APOP secure login - Choose to activate APOP secure login for a POP3 account. IMAP4 accounts are always set to off.

3. Tap the Save [Save] icon to complete the email account configuration.

Editing an email account

1. Select a desired email account from the email account list and tap the ☰ icon and select the [Edit].
2. You can edit desired fields by moving the cursor up and down.
3. When configuration is complete, Tap the Save [Save] icon to complete the email account configuration.

> **TIP!** When you try to change the mailbox type, all emails downloaded before would be deleted.

2. **Allow reply Email:** Determines whether to allow sending a read confirmation mail for a read confirmation mail request.
3. **Request reply Email:** Determines whether to request a read confirmation mail.
4. **Retrieve interval:** You can select the auto receiving time slot to Off, 15 minutes, 30 minmutes, 1 hour, 2 hours, 4 hours or 8 hours.

5. **Include message in Fwd. & Reply:** Determines whether to include the received message when you forward the message or reply to it.
6. **Include attachment:** Determines whether to include attachment.
7. **Auto Retrieval in Roaming:** You can configure auto retrieval in roaming.
8. **New Email noti. Info:** When a new email arrives, an icon appears at the top of the screen.
9. **Signature:** You can configure a text signature to be attached to the end of an email. The configured signature text is automatically or manually attached to the end of the email when it is sent.
10. **Priority:** You can select the priority level of Emails (Low, Normal and High).

Videomail

This menu allows you to edit the video mail server. You can use video mail service through this video mail server if this feature is supported by the network service provider. Please check with your network service provider for details of their service in order to configure the handset accordingly.

Voicemail

This menu allows you to edit the voice mail server. You can use voice mail service through this voice mail server if this feature is supported by the network service provider. Please check with your network service provider for details of their service in order to configure the handset accordingly.

Service messge

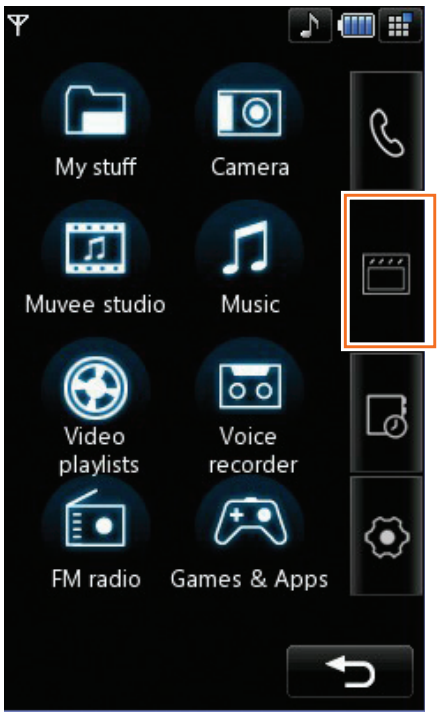
You can configure the service message receipt option.

Call menu

Info. Service

Info service messages are text messages sent by the network to GSM phone users. They provide general information such as weather reports, traffic news, taxis, pharmacies, and stock prices. Each type of information is associated with a number, which can be obtained from the service provider. When you receive an info service message, a popup message will indicate a new message receipt or the info service message will be displayed directly.

- **Cell broadcast:** You can set the reception status.
- **Channels:** You can add or modify the channels.
- **Languages:** You can select the language you want by tapping the language. Then, the info service message will be shown in the language that you have selected.



2 Multimedia menu

Multimedia menu

My stuff

My images

You can store any multimedia files into your phone's memory so that you have easy access to all of your pictures, sounds, videos and games. You can also save your files to a memory card. The advantage of using a memory card is that you can free up space on your phone's memory.

To access the Multimedia menu, touch then . Touch **My stuff** to open a list of folders storing all of your multimedia files.

My images contains a list of pictures including default images pre-loaded onto your phone, images downloaded by you and images taken on your phone's camera.
Touch to change the view from thumbnail image to list.

My images option menus

The options which are available to you in **My images** depend on what type of image you have selected. All of the options will be available for pictures you have taken on the phone's camera, but only the **Use as, Print, Sort by** and **Memory manager** options are available for default images.

Send - Send the image to a friend.

Use as - Set the image to appear at certain times.

Mark/Unmark - Select multiple files.

Move - Move an image from the phone memory to a memory card or vice versa.

Copy - Copy an image from the phone memory to a memory card or vice versa.

Delete - Delete an image.

Rename - Rename an image.

Create new folder - Create a new folder within the My images folder.

Slide show - Start a slide show.

Print - Print an image file via PictBridge or Bluetooth®.

Sort by - Sort images into a specific order.

Memory manager - View the memory status.

TIP! You can store .JPG (.JPEG) files in both the phone and memory card in the Photos folder. In the Images folder in both the phone and external memory you may store JPG, BMP, PNG, GIF, WBMP and other image format files.

To setup a JPG/BMP/GIF/PNG file from the Photo folder as wallpaper, go to Menu-Multimedia-Photo album and then select Set as wallpaper in Options menu.

GIF files are able to set as a wallpaper but note that Ani GIF or Animated GIF will be displayed without animation. Progressive JPEG file is not supported.

TIP! You can print still image files in jpeg format, but you cannot print any other types of image files like GIF, PNG, and BMP files.

Before you start to print via PictBridge, you should connect the USB cable to the PictBridge compatible printer.

You can select only one image file for printing via Bluetooth.

My sounds

The Sounds folder consists of folders containing the Default sounds and Voice recordings. Here you can manage, send or set sounds as ringtones.

My videos

Shows the list of MP4, 3GP, AVI files in the Downloaded folder.

Downloaded folder is set by default. You cannot edit or delete the default folder. You can save the file downloaded from the network service in this folder.

Multimedia menu

If you tap the icon in a list, you can view the submenus as follows (in Thumbnail view):

- **Use as:** Use the video as a ringtone.
- **Send:** You can send the selected video clip via Message, Email, Bluetooth or Youtube if not protected by Digital Rights Management (DRM).
- **Move:** Moves the file into handset memory or external memory.
- **Copy:** Copies the file in handset memory or external memory.
- **Delete:** Deletes the selected video.
- **Rename:** You can rename the video.
- **Mark/Unmark:** Using the Mark function, you can send, delete, move and copy multiple files.
- **Create new folder:** You can create a new folder.
- **Sort by:** You can sort files by date, file type or name.
- **Memory manager:** Displays the memory status(handset or external memory card).

My games & apps

You can easily execute some applications by selecting this menu. All the games and applications in "Games & Application" folder are Java applications(MIDlets). The downloaded applications from the portal site will be stored in the "Games & Application" folder by default.

Flash contents

This application enables you to play flash contents (SWF file).

Documents

This menu enables you to view document files (ppt, pdf, doc and excel).

Others

Any type of file can be stored here. This folder is mainly used for transporting files from one PC to another.

Blogger / Youtube posting

- **Blogger:** You can upload your image to Blogger even if you do not have an account.
  After inputting the title and description, you can upload this to a temporary blogger URL.
  After uploading is finished, you have 3 options : Go to URL, Send message and Add to bookmark. You will also get an automatic SMS message containing a temporary URL and a claim token. You can then integrate the newly created posting to your blog account by logging into the Blogger website and entering the claim token.
- **Youtube:** You can upload your video to Youtube with your existing account information.
  You can enter the title, description, tag and change the category and privacy setting. (public / private) After uploading is finished, you have 3 options : Go to URL, Send message and Add to bookmark.
  Please allow some time for your newly created posting to process before viewing it on the mobile browser. There is a size limit of 2 megabytes per file for uploading video to Youtube.

TIP! Uploading to Blogger / Youtube is subject to network conditions.

Multimedia menu

Camera

Camera

Taking a quick photo

1 Move the camera mode switch to .

2 Press the capture button. The camera's viewfinder will appear on screen.

3 Holding the phone horizontally, point the lens towards the subject of the photo.

4 Slightly press the capture button, a focus box will appear in the centre of the viewfinder screen.

5 Position the phone so you can see the subject of your photo in the focus box.

6 When the focus box turns green, the camera has focused on your subject.

7 Press the capture button fully. era module built in your phone, you can take pictures or record videos. Additionally, you can send photos to other people and select photos as wallpaper.

After you've taken your photo

Your captured photo will appear on screen. The name of the image runs along the bottom of the screen together with four icons down the right side.

Touch to take another photo straightaway. Your current photo will be saved.

Touch to delete the photo you have just taken and confirm by touching Yes. The viewfinder will reappear.

Touch to set the photo you have just taken as your wallpaper.

Touch to send the photo as an MMS, Email or via Bluetooth. See page 43 for **Sending a message**, page 126 for **Bluetooth**.

TIP! Move the camera mode switch to ▶ to open the photo gallery. See page 69, **Viewing your saved photos**, for details.

Multimedia menu

Getting to know the viewfinder

Zoom - Slide the marker up the bar to zoom in or down to zoom out. Alternatively you can use the jog dial around the lens.

Settings - Touch this icon to open the settings menu. See Using the advanced settings on page 66 for details.

Camera mode - Camera mode is selected.

Flash status

Macro on/off

Flash - See Using the flash on page 63.

Quick settings

Contrast - See Adjusting the contrast on page 64.

Shot type - See Choosing a shot type on page 64.

Back - Touch here to return to the standby screen.

Saving to handset memory/external memory

Image quality

Image size

ISO value

TIP! You can close all the shortcut options for a clearer viewfinder screen. Simply touch the centre of the viewfinder once. To recall the options touch the screen again.

Using the flash

The flash is set to off as default, but there are other options.

1 Select from the top right corner of the viewfinder to enter the flash sub-menu.

2 There are three flash options:

Auto - Your camera will assess the lighting needed to take a good picture and use the flash as necessary.

Red-eye reduction - The camera will flash twice in order to reduce red eye.

Always off - The camera will never flash. This is useful if you want to save battery power.

3 Touch the flash option you'd like to use.

4 When you've made your selection the flash menu will automatically close, ready for you to take your picture.

5 The flash icon in the viewfinder will change according to your new flash mode.

Note: Whenever you exit the camera, the flash setting will revert to the default off mode. You'll need to switch the flash back on if you still need it when you reopen the camera.

TIP! In camera mode the unlock/lock button functions as an Image Stabilizer mechanism. The Image Stabilizer compensates for small movements the camera makes when you're shooting a picture. This is useful when you're taking photos without the flash, as the exposure is longer and therefore the camera will pick up on small movements.

Multimedia menu

Using the quick settings

1 Touch MODE to open the quick settings options. These include various options for taking photos at night (e.g. **Night** or **Party**), for landscape or portrait photography or to photograph moving subjects (e.g. **Sport** mode). Select **High Sensitive** for a more luminescent photo.

2 Touch the preset quick setting which best suits the conditions.

3 Take your photo.

Adjusting the contrast

Contrast defines the difference between light and dark in an image. A low contrast image will appear foggy, whereas a high contrast image will appear much sharper.

1 Touch .

2 Slide the contrast indicator along the bar, towards for a lower contrast, hazier image or towards for a higher contrast, sharper image.

Choosing a shot type

1 Touch to open the available shot types.

2 Choose from the four options:

Normal shot -This is the default shot type, the photo will be taken in the normal way, as outlined in taking a quick photo.

Continuous shot - Continuous shot enables you to take nine shots automatically in very quick succession. See **Using continuous shot** on page 65 for details.

Panorama - This shot type is great for taking a photo of a large group of people or for capturing a panoramic view. See **Taking a panoramic shot** on page 65 for more details.

Frame shot - Choose from one of the fun frames to transform your friend into a pirate or just decorate their surroundings.

Using continuous shot

Continuous shot mode is great for taking photos of moving objects or at sporting events.

1 Touch to open the available shot types and select **Continuous shot**.

2 Position the subject in the viewfinder and press the capture button as you would to take a normal photo.

3 The camera will take nine shots in quick succession and display the first with nine thumbnails shown on the left side of the screen.

4 You can save two of the nine shots. Select the two you want to keep by touching the thumbnail twice: once to view and a second time to save.

5 A tick will appear next to the image thumbnail. Touch **Save** to exit.

Taking a panoramic shot

Capture life as it appears using panoramic shot. The camera will let you take three photo's, all aligned, and combine them into one image so that your wide angle view becomes a panoramic photo.

1 Touch to open the available shot types and select **Panorama**.

2 Take the first photo as normal. A ghosted version of the right side of the image will appear in the viewfinder.

3 When you take the second and third photo, line the ghost of the previous image up with the image in the viewfinder.

4 In the photo gallery, the photos will be saved as three separate images and one panoramic image.

Note: Due to the image size the panoramic photo will appear slightly distorted in the Gallery view. Touch it twice to view it properly.

Multimedia menu

Using the advanced settings

From the viewfinder touch to open all the advanced settings options.

Image size - Change the size of the photo to save on memory space or take a picture preset to the correct size for an MMS. See **Changing the image size** on page 67.

Image quality - Choose between **Super fine, Fine** and **Normal**. The finer the quality the sharper a photo will be but the file size will increase as a result, which means you'll be able to store fewer photos in your memory.

White balance - The white balance ensures that any white in your photos is realistic. In order for your camera to correctly adjust the white balance you may need to determine the light conditions. Choose from **Auto, Incandescent, Sunny, Fluorescent** or **Cloudy**.

ISO - ISO determines the sensitivity of the camera's light sensor. The higher the ISO, the more sensitive the camera will be. This is useful in darker conditions when the flash can't be used. Choose an ISO value from **Auto, ISO 100, ISO 200, ISO 400** or **ISO 800**.

Colour tone - Choose a colour tone to apply to the photo you're taking. See **Choosing a colour tone** on page 68.

Self-timer - The self-timer allows you to set a delay after the capture button is pressed. Choose from **3 seconds, 5 seconds** or **10 seconds**. Great for that group photo you want to be part of.

Zoom - Choose a zoom to apply to the photo you're taking.

Macro - Macro mode allows you to take extreme close-ups. If you are trying to take a close-up shot but the focus box remains red, try turning the macro mode on.

Shutter sound - Select one of the three shutter sounds.

Focus - Select the way of fucus.

Switch camera - For self portraits, switch to the LG U990's inner camera. See **Using the inner camera** on page 68 for details.

Memory in use - Choose whether to save your photos to the **Handset memory** or to the **External memory**.

Note: Always touch Save after selecting a new setting to implement the changes you've made.

TIP! When you exit the camera all your settings will return to default, except image size and image quality. Any non-default settings you require will need to be reset, for example colour tone and ISO. Check them before you shoot your next photo.

TIP! The settings menu is superimposed over the viewfinder, so when you change elements of the image colour or quality you'll be able to see the image change in preview behind the settings menu. Remember to touch **Save** before exiting to apply any changes.

Changing the image size

The more pixels, the larger the file size, which in turn means they take up more of your memory. If you want to fit more pictures on to your phone you can alter the pixel number to make the file size smaller.

1 From the viewfinder touch in the bottom left corner.

2 Select from the settings menu.

3 Select a pixel value from the six numerical options (**5M, 3M, 2M, 1M, 640x480, 320x240**) or choose a preset:

Wallpaper - This sets up the camera to take a photo the perfect size to be set as a wallpaper for the phone.

Multimedia menu

Contacts - This sets up the camera to take a photo the perfect size to be added to a phone contact.

4 Select the size option you'd like to use and touch **Save** to implement your changes. The settings menu will automatically close, ready for you to take your picture.

Choosing a colour tone

1 From the viewfinder touch in the bottom left corner.

2 Select from the settings menu.

3 There are five colour tone options, **Normal (colour), Black & White, Negative, Sepia** or **Vivid**.

4 Touch the colour tone you'd like to use and select **Save**.

5 When you've made your selection the colour tone menu will automatically close, ready for you to take your picture.

TIP! You can change a photo taken in colour to black and white or sepia after it's taken but you cannot change a picture taken in black and white or sepia back to colour.

Using the inner camera

Your LG U990 has a 640x480 inner camera, not just for video calling but for taking pictures too.

1 To switch to the inner camera touch then select .

2 After a few seconds you'll see yourself in the viewfinder. To capture the image press the capture button as normal.

TIP! The inner camera has fewer settings as it has no flash or ISO. You can still alter the image size, image quality, white balance and colour tone by touching in the same way as when using the main camera.

3 After you've taken the photo you'll be offered all the same options as are available for an image taken with the main camera.

4 To return to the main camera touch and then .

Viewing your saved photos

1 You can access your saved photo's from within the camera mode and from the standby screen. From within the camera you simply move the camera mode switch to , whilst from the standby screen you should move the camera mode switch to and then press the capture button.

2 Your gallery will appear on screen.

3 Touch the photo you want to view once to bring it to the front of the gallery.

4 Touch the photo a second time to open it fully.

Viewing the details of a photo

1 Touch the photo to bring it to the front of the gallery screen.

2 Touch the + icon in the bottom right corner of the photo.

3 The photo will flip over to reveal its name, the date it was taken, its size (in kilobytes and pixels) and the image type (e.g. jpeg).

4 Touch to close the details and view the photo.

Multimedia menu

Video camera

Shooting a quick video

1 Move the camera mode switch to .

2 Press the capture button. The video camera's viewfinder will appear on screen.

3 Holding the phone horizontally, point the lens towards the subject of the video.

4 Press the capture button once to start recording.

5 REC will appear at the top of the viewfinder and a timer at the bottom showing the length of your video.

6 To pause the video touch and resume by selecting .

7 Touch on screen or press the capture button a second time to stop recording.

After you've shot your video

A still image representing your captured video will appear on screen. The name of the image runs along the bottom of the screen together with three icons down the right side.

Touch to shoot another video straight away. Your current video will be saved.

Touch to delete the video you have just made and confirm by touching **Yes**. The viewfinder will reappear.

Touch to send the video as an MMS, Email or via Bluetooth. See page 43 for **Sending a message**, or page 126 for **Bluetooth**.

TIP! Move the camera mode switch to to open the gallery. See page 76, **Viewing your saved videos**, for details.

Getting to know the viewfinder

Zoom - Touch to zoom in or to zoom out. Alternatively you can use the jog wheel around the lens.

Video mode - Video mode is selected.

Image size

Saving to handset memory/External memory

120fps - Smaller image size with Quad Speed Playback, capturing the action at an impressive 120 frames per second. Playback is at 15 frames per second for the best view in the house. Great for capturing high speed action.

Camera mode

Contrast - See **Adjusting the contrast** on page 72.

Back - Touch here to return to the standby screen.

Settings - Touch this icon to open the settings menu. See **Using the advanced settings** on page 72 for details.

TIP! You can close all the shortcut options for a clearer viewfinder screen. Simply touch the centre of the viewfinder once. To recall the options touch the screen again.

Multimedia menu

Adjusting the contrast

Contrast defines the difference between light and dark in an image. A low contrast image will appear foggy, whereas a high contrast image will appear much sharper.

1 Touch .

2 Slide the contrast indicator along the bar, towards for a lower contrast, hazier image, or towards for a higher contrast, sharper image.

Using the advanced settings

From the viewfinder touch to open all the advanced settings options.

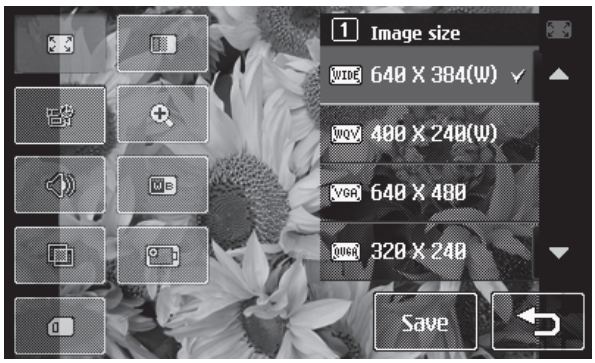


Image size - Change the size of the video to save on memory. See **Changing the image size** on page 67.

Image quality - Choose between **Super fine, Fine** and **Normal**. The finer the quality the sharper a video will be, but the file size will increase as a result, which means you'll be able to store fewer videos in the phone's memory.

Duration - Set a duration limit for your video. Choose **Normal** or **MMS** to limit the size to be able to send the video as an MMS.

> **TIP!** If you choose MMS duration, try choosing a lower image quality to enable you to shoot a longer video.

Zoom - Choose a zoom to apply to the video you're taking.

Mute - Choose **Mute** to record a video without sound.

White balance - The white balance ensures that any white in your videos is realistic. In order for your camera to correctly adjust the white balance you may need to determine the light conditions. Choose from **Auto, Incandescent, Sunny, Fluorescent** or **Cloudy**.

Colour tone - Choose a colour tone to apply to the video you're taking. See **Choosing a colour tone** on page 75.

Switch camera - Switch to your LG U990's inner camera to record a video of yourself. See **Using the inner video camera** on page 75 for details.

Memory in use - Choose whether to save your videos to the **Handset memory** or to the **External memory**.

Note: Always touch **Save** after selecting a new setting to implement the changes you've made.

TIP! When you exit the video camera all your settings will return to default, except image size and image quality. Any non-default settings you require will need to be reset, for example colour tone and white balance. Check them before you shoot your next video.

TIP! The settings menu is superimposed over the viewfinder, so when you change elements of the image colour or quality you'll be able to see the image change in preview behind the settings menu. Remember to touch Save before exiting to apply any changes.

Changing the video image size

The more pixels, the larger the file size, which in turn means they take up more memory. If you want to fit more videos onto your phone you can alter the pixel number to make the file size smaller.

1 From the viewfinder touch in the bottom left corner.

2 Select from the settings menu.

3 Select a pixel value from the six options:

WIDE **640x384(W)** - The highest quality widescreen option.

WQV **400x240(W)** - This is also widescreen, but of a lower resolution.

Multimedia menu

640x480 - Standard sized VGA. This option is of the highest resolution but not widescreen.

320x240 - Smaller image size, therefore smaller file size. Great for saving on memory space.

176x144 - Smallest image size and therefore smaller file size.

4 Select the size option you'd like to use and touch **Save** to implement your changes. The settings menu will automatically close, ready for you to shoot your video.

Note: When you view your videos, playback speed is 30 frames per second, with the exception of 120fps where playback is at 15 frames per second.

WARNING! The great editing software on your LG U990 is compatible with all video types except 640x384 and 640x480. Don't record in this format if you plan to edit your video.

The stored file types vary depending on the size or the pixel value of the stored video clip. See the table below.

Camera type	Image Size	File type
External camera (5M)	640X384(W)	AVI
	400X240(W)	AVI
	640X480	AVI
	320X240(120fps)	AVI
	320X240	3gp
	176X144	3gp
Internal camera (VGA)	320X240	3gp
	176X144	3gp

TIP! For video format conversion software, see the CD which you received with your U990.

Choosing a colour tone

1 From the viewfinder touch in the bottom left corner.

2 Select from the settings menu.

3 There are five colour tone options, **Normal** (colour), **Black & White, Negative, Sepia, Emboss**.

4 Touch the colour tone you'd like to use and select **Save**.

5 When you've made your selection the colour tone menu will automatically close, ready for you to shoot your video.

> **TIP!** You can change a video shot in colour to black and white or sepia after it's taken, but you cannot change a video shot in black and white or sepia back to colour.

Using the inner video camera

Your LG U990 has a 320x240 inner camera, not just for video calling but for recording videos too.

1 To switch to the inner camera touch then select .

2 After a few seconds you'll see yourself in the viewfinder. To start recording the image press the capture button as normal, press a second time to stop recording.

3 After you've shot the video you'll be offered all the same options as are available for a video shot using the main camera.

4 To return to the main camera touch and then .

> **TIP!** You can still alter the image size, image quality, duration, mute, white balance, colour tone and the memory by touching in the same way as when using the main camera.

Multimedia menu

Gallery

Watching your saved videos

1 Move the camera mode switch to ▶ and press the capture button.

2 Your gallery will appear on screen.

3 Touch the video you want to view once to bring it to the front of the gallery.

4 Touch the video a second time to open it fully.

Viewing the details of a video

Videos and photos are grouped together in the gallery. If you have trouble telling which are photos and which are video, check the detail. Videos can be AVI file types and photos are JPEG file types.

1 Touch the video still to bring it to the front of the gallery screen.

2 Touch the + icon in the bottom right corner of the video still.

3 The video still will flip over to reveal the video's name, the date it was shot, its size (in kilobytes and pixels) and the image type (e.g. avi).

4 Touch ✕ to close the details and view the video.

Watching your videos on your TV

Connect your U990 to your TV using the TV cable. Open the video you'd like to watch on TV, press [ ] and select [ ].

Note: The TV cable is available for purchase separately.

> **WARNING!** All formats except 320x240 and 176x144 are compatible with watching on TV.

Your photos and videos

Viewing your photos and videos

1 From the standby screen, move the camera mode switch to [▶] and press the capture button.

2 Your gallery will appear on screen.

3 Touch the video or photo you want to view once to bring it to the front of the gallery.

4 Touch it a second time to open it fully.

5 Videos will begin to play automatically. To pause playback touch the screen to bring up the options and select ||.

> **TIP!** Change the way your photos and videos are displayed in the gallery by touching **Standard** or **Random** at the bottom of the screen.

> **TIP!** To delete a photo or video, open it and select [ ]. Touch **Yes** to confirm.

Using zoom when viewing a video or photo

To zoom in press [+] repeatedly. To zoom out press [−]. Use the thumbnail in the bottom right corner to move the focus area.

Multimedia menu

Adjusting the volume when viewing a video

To adjust the volume of the audio on a video whilst it is playing, slide the marker up and down the volume bar on the left side of the screen. Alternatively, use the jog wheel around the lens.

Capturing an image from a video

1 Select the video you would like to capture an image from.

2 Touch ❙❙ to pause the video on the frame you'd like to convert to an image and touch the right side of the screen to open the options menu.

3 From the options menu select ⬚.

4 Select **Save**.

5 The image will appear on screen, with its assigned image name.

6 Touch the image then ↩ to return to the gallery.

7 The image will be saved in the My stuff folder and appear in the gallery. You need to exit gallery and then re-open for this to appear.

Warning! Some functions would not work properly if the multimedia fi le is not recorded on the phone.

Viewing the details of a video or photo

Videos and photos are grouped together in the gallery. If you have trouble telling which are photos and which are videos, check the details. For example, videos may be AVI or 3GP file types and photos may be JPEG or GIFF file types.

1 Touch the video still or photo to bring it to the front of the gallery screen.

2 Touch the + icon in the bottom right corner of the video still or photo.

3 The video still or photo will flip over to reveal its name, the date it was taken, its size (in kilobytes and pixels) and the image type (e.g. AVI or JPEG).

4 Touch ✕ to close the details and view the video still or photo.

Sending a photo or video from the gallery

1 Touch a photo or video twice to open it. If you select a video, press || when it starts to play.

> **TIP!** You can rename a photo or video in **My stuff**. Select the photo or video, then touch ☰ and choose **Rename**. Enter the new name for your photo or video.

2 Touch the right side of the screen to open the options menu.

3 Select ✉ and choose how you would like to send the video or photo: **Message, Email, Bluetooth**.

4 The chosen messaging application will open so you can send the video or photo.

Note: The photo or video may need to be resized before it can be sent by MMS. Some videos may be too large to send by MMS at all, in which case choose one of the other sending options.

Viewing your photos as a slide show

Slideshow mode will show all the photos in your gallery one at a time as a slideshow. Videos can not be viewed as a slideshow.

1 Touch the photo you would like to begin the slideshow twice to open it.

2 Touch the right side of the screen to open the options menu.

3 Select 🖼 .

4 The slideshow will begin.

Multimedia menu

There are five options within slideshow:

Touch to increase or decrease the speed of the slideshow.

Touch here to view the photos in a random order (i.e. not the chronological order they appear in your gallery).

Touch to skip to the next photo.

Touch to return to the last photo shown.

/ Touch to pause the slideshow on a particular photo. Touch again to resume playback.

Setting a photo as wallpaper

1 Touch the photo you would like to set as wallpaper twice to open it.

2 Touch the right side of the screen to open the options menu.

3 Touch .

4 The screen will switch to portrait mode. Select the portion of the photo you would like to set as wallpaper by moving the red box on the thumbnail. This area will appear in actual size on screen.

5 When you are happy with the section touch **Set**.

Viewing your videos on a TV

See page 77 for more information.

Editing your photos

There are loads of great things you can do to your photos to change them, add to them or liven them up a little.

1 Open the photo you'd like to edit and touch to bring up the options.

2 Select . The following screen will be displayed.

3 Touch the icons to adapt your photo:

Crop your photo. Choose a square or circular crop area and touch the screen to select the area.

Draw something on your photo freehand. Select the thickness of the line from the four options. To change the colour of the line see ■ below (the colour icon will change to the colour you have selected) below.

See **Adding text to a photo** on page 82.

Decorate your photo with stamps. Choose from the different stamps available and touch your photo wherever you'd like them to be. To change the colour of a stamp see ■ below.

■ Change the colour of a stamp, line or some text. You must select the colour before you draw, write or stamp the photo.

Select the thickness and draw over your image to remove any stamps, lines or text.

Save Save the changes you have made to the photos. Select to save the changes over the **Original file**, or as a **New file**. If you select **New file** enter a file name.

Undo Undo the last **Effect** or **More** edit you made to the photo.

Effect See **Adding an effect to a photo** on page 82.

More Touch to open further effect options including **Rotate** and **Mirror**. There are also more advanced editing options. See **Morphing a photo, Adding a colour accent** and **Swapping the colours in a phone** on page 83~84.

Touch to return to the gallery.

Multimedia menu

Adding text to a photo

1 From the editing screen, touch T .

2 Select **Signature** to add unframed text or choose either of the speech bubble shapes.

3 Enter your text using the keypad and touch **Done**.

4 Move the text by touching it and sliding it to the place you'd like it to be.

Adding an effect to a photo

1 From the editing screen, touch Effect .

2 Choose to apply any of the six options to the photo:

Soften - Move the marker along the bar to soften the focus of the photo. Select **Done** to save the changes or choose **Cancel**.

Sharpen - Move the marker along the bar to sharpen the focus of the photo. Select **Done** to save the changes or choose **Cancel**.

Mosaic blur - Touch to apply a blurred mosaic effect to the photo. Touch **Undo** to return to the normal photo.

Frame - Add a frame to your photo. You may be prompted to allow the image size to be changed. To see the frame types select **Yes**. The chosen frame will be superimposed over your photo.

Resize - Touch here for size options. Touch your desired size to change the size of the photo.

Colour effect - Change the colour of a photo to **Black and white, Sepia, Colour negative, Enhanced RGB** or **Contrast**. If you select Contrast move the marker along the bar to increase or decrease the contrast.

3 To undo an effect simply touch **Undo**.

TIP! You can add more than one effect to a photo, except for a colour effect of which you can only select one at a time.

Morphing a photo

Morphing a photo is great for changing the facial expressions of friends, or just for distorting a photo for artistic effect.

1 From the editing screen touch More .

2 Choose Morphing and four crosses will appear on the photo.

3 Move the crosses around the photo so they are on the part you'd like to morph. For example, if you are morphing a face, place a cross on the outside corner of each eye and one each side of the lips.

4 Select a face to represent how you'd like to morph the photo.

5 Select **Save** to save the changes.

Adding a colour accent to a photo

1 From the editing screen, touch More .

2 Choose Colour accent.

3 Select part of the photo. A traced line will appear around everything in that area which is of the same or similar colour.
For example, someone's hair or the colour of their jumper.

4 Touch **Done**.

5 All colour will be removed from the photo, apart from the section marked for colour accenting.

6 Alter the intensity of the accenting by sliding the marker up or down the intensity bar.

7 Select Save to save the changes.

Multimedia menu

Swapping the colours in a photo

1 From the editing screen, touch More .

2 Choose Colour swapping.

3 Select part of the photo. A traced line will appear around everything in that area which is of the same or similar colour.
For example, someone's hair or the colour of their jumper.

4 Touch ■ and select a colour.

5 Press **Done**.

6 The part of the photo selected for colour accenting will change to the selected colour swapping.

7 Select **Save** to save the changes.

Editing your videos

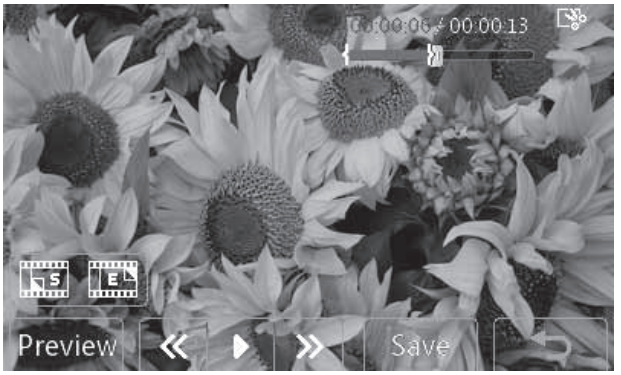
The editing features are available for all video types except 640x384 and 640x480.
Don't record in these formats if you plan to edit your video.

Trimming the length of your video

1 Open the video you'd like to edit, select ❙❙ and touch the screen to bring up the options.

2 Select and choose **Trim**.

3 Touch ▶ and mark the new start and end points using S and E .



4 Touch Preview to ensure you are happy with the new cut.

5 Touch Save or, alternatively, touch ↩ to return to the gallery and discard the changes.

Merging two videos together

1 Open the video you'd like to edit, select ❙❙ and touch the screen to bring up the options.

2 Select and choose **Video merge**.

3 The My videos folder will open. Choose the video you would like to merge and touch **Select**.

4 Touch **Effect** to choose how the videos merge together: **None, Fade out, Pan zoom, Oval, Uncover, Blind, Checker board** or **Dissolve**.

5 Press **Save** followed by **Yes** to save the new merged video. Choose to save over the original file or as a new file.

6 Repeat these steps to merge more videos.

Merging a photo with a video

1 Open the video you'd like to edit, select || and touch the screen to bring up the options.

2 Select and choose **Image merge**.

3 The My images folder will open. Choose the photo you would like to merge into your video and touch **Select**.

4 Touch and slide the photo to merge it to the end or the beginning of the video.

5 Touch **Effect** to choose how the photo and video merge together: **None, Fade out, Pan zoom, Oval, Uncover, Blind, Checker board** or **Dissolve**.

6 Press Save followed by Yes. Choose to save over the original file or as a new file.

7 Repeat these steps to merge more photos.

Adding text to a video

1 Open the video you'd like to edit, select || and touch the screen to bring up the options.

2 Select and choose **Text overlay**.

3 Enter your text using the keypad and select **Done**.

4 Touch ▶ and mark when you'd like the text to appear using .

5 Touch the area of the screen you'd like the text to appear in.

Multimedia menu

6 Touch to mark when you'd like the text to disappear.

7 Touch **Preview** to ensure you are happy with the text overlay.

8 Touch **Save** followed by **Yes**. Choose to save over the original file or as a new file.

9 Repeat these steps to add more text.

Overlaying an photo

1 Open the video you'd like to edit, select || and touch the screen to bring up the options.

2 Select and choose **Image overlay**.

3 The My images folder will open. Choose the photo you would like to overlay your video and touch **Select.**

4 Touch and mark when you'd like the photo to appear using and .

5 Touch the area of the screen you'd like the photo to appear in.

6 Touch to mark when you'd like the photo to disappear.

7 Touch **Preview** to ensure you are happy with the photo overlay.

8 Touch **Save** followed by **Yes**. Choose to save over the original file or as a new file.

9 Repeat these steps to add more photos.

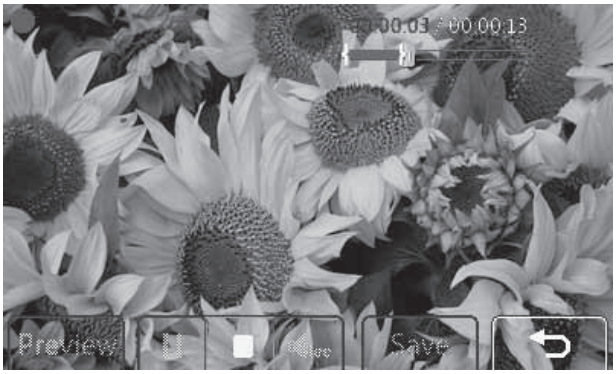
Add a voice recording

1 Open the video you'd like to edit, select || and touch the screen to bring up the options.

2 Select and choose **Voice recording**.

3 The quality of the original audio will be affected by adding a voice recording, touch Yes to continue.

4 Touch ▶ to view your video. When you get to the part you'd like to record your voice over, press Rec.



5 Press ■ to stop recording and playback.

6 Touch **Preview** to ensure you are happy with the voice recording.

7 Touch **Save** followed by **Yes** to save. Choose to save over the original file or as a new file.

8 Repeat these steps to add more voice recordings to the video.

Adding a soundtrack to your video

1 Open the video you'd like to edit, select ❙❙ and touch the screen to bring up the options.

2 Select and choose **Audio dubbing**.

3 The My sounds folder will open. Choose the track you would like to add to your video and touch **Select**.

4 The original audio of your video will be erased. Touch **Yes** to continue.

5 If the audio is shorter than the video choose whether to play **Once** or to **Repeat** it.

6 Choose to save over the original file or as a new file.

Changing the speed of your video

1 Open the video you'd like to edit, select ❙❙ and touch the screen to bring up the options.

2 Select and choose **Time scaling**.

3 Select one of the four speed options: **x4, x2, x1/4, x1/2**.

4 Choose to save over the original file or as a new file.

Multimedia menu

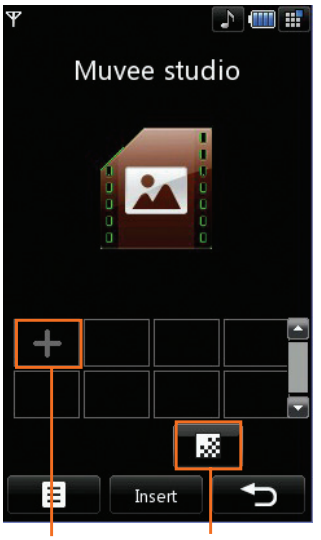
Adding a dimming effect

1 Open the video you'd like to edit, select || and touch the screen to bring up the options.

2 Select and choose **Dimming effect**.

3 Choose to save over the original file or as a new file.

4 Your video will now fade in at the start and fade out at the end.



Images Muvee Style

Muvee studio

Muvee studio

Muvee Studio ables you to create MPEG file in music video format by applying Muvee Style. You can save it as MPEG file and preview the file after applying a style.

Saved MPEG file will be saved in "Video Playlists" menu(See Page 92).

Creating a movie

1 Touch then .

2 Touch **Muvee studio**.

3 Touch to add an image. Touch the images you want to include then select **Done**.

4 Touch to choose a Muvee style. Select from:

Classic

Forever

Moody

Modern

Musical

5 Touch **Play** to see what you've created.

6 Touch then **Save Location** to choose where to save the movie.

Music

Your LG U990 has built-in music player so you can play all your favourite tracks. To access the music player, touch then then **Music**. From here you can access to number of folders:

Recently played - View all of the songs you have played recently.

All tracks - Contains all of the songs you have on your phone.

Playlists - Contains any playlists you have created.

Artists - Browse through your music collection by artist.

Albums - Browse through your music collection by album.

Genres - Browse through your music collection by genre.

Shuffle tracks - Listen to your music in a random order.

Transferring music onto your phone

The easiest way to transfer music onto your phone is via Bluetooth or your sync cable.

You can also use LG PC SUITE, see page 129 for details. To transfer using Bluetooth:

1 Make sure both devices have Bluetooth switched on and are visible to one another.

2 Select the music file on the other device and choose to send it via Bluetooth.

3 When the file is sent you will have to accept it on your phone by touching **Yes**.

4 The file should appear in **Music** > **All tracks**.

Multimedia menu

Playing a song

1 Touch then .

2 Touch **Music**, then **All tracks**.

3 Select the song you want to play and touch **Play**.

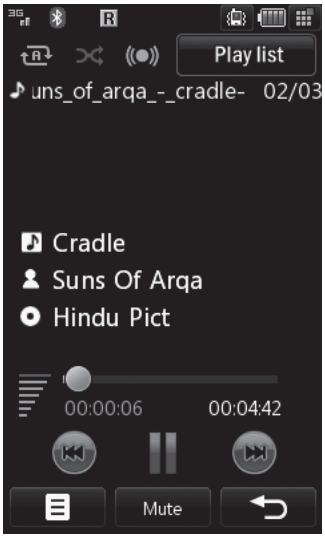
4 Touch to pause the song.

5 Touch to skip to the next song.

6 Touch to skip to the previous song.

7 Touch to stop the music and return to the **Music** menu.

TIP! To change the volume while listening to music, touch .



Using options while playing music

Touch and choose from:

Minimize - Make the music player screen disappear so that you can continue using your phone as normal.

Visualisation - Select the visual effects.

File info. - View the Name, Size, Date, Time, Type, Duration, Protection and Copyright of the song.

Send - Send the song as a message or via Bluetooth.

Use as - Use the song as one of your ringtones.

Creating a playlist

You can create your own playlists by choosing a selection of songs from the **All tracks** folder.

1 Touch then .

2 Touch **Music**, then **Playlists**.

3 Touch **Add**, enter the playlist name and touch Save.

4 The All tracks folder will show. Touch all of the songs that you would like to include in your playlist; a tick will show next to their name.

5 Touch **Done**.

To play a playlist, select it and touch **Play**.

Note: To add a second playlist, touch then **Add new playlist**.

Editing a playlist

From time to time, you may want to add new songs or delete songs from a playlist. When you want to do this, you can edit the playlist.

1 Touch then .

2 Touch Music, then Playlists.

3 Select the playlist.

4 Touch and select:

Add new songs – To add more songs to the playlist. Mark the ones you want and touch **Done**.

Move up/down – Move the song up or down the list to change the playing order.

Send – Send a song as a message or via Bluetooth.

Remove from list – Remove a song from the playlist. Touch **Yes** to confirm.

Mark/Unmark – Select multiple files.

Use as – You can set the song as a effect sound.

Deleting a playlist

1 Touch then .

2 Touch **Music**, then **Playlists**.

3 Touch then **Delete** or **Delete all** to delete all of the playlists.

Multimedia menu

Video playlists

Video playlists

All of your videos are stored in the **Video playlists** menu.

1 Touch ⋮⋮ then ▭ .

2 Touch **Video playlists**, then **All videos**. A list of all your video clips will appear.

3 Touch **Play** to watch a video.

You can manage your video clips by creating playlists.

1 Touch ⋮⋮ then ▭ .

2 Touch **Video playlists**, then **Playlists.**

3 Touch **Add**, enter the playlist name and touch **Save**.

4 All of your videos will show in a list. Select the ones you want in the playlist a tick will appear next to their name.

5 Touch **Done**.

Voice recorder

Voice recorder

Use your **voice recorder** to record voice memos or other sounds.

1 Touch ⋮⋮ then ▭ .

2 Touch **Voice recorder** then ☰ and choose from:

Duration – Set the recording duration. Choose from **MMS message size, 1 minute** or **No limit**.

Quality – Select the sound quality. MultimediaChoose from Super Fine, Fine or Normal.

Go to my sounds – Open the Voice recordings folder in **My sounds**.

Recording a sound or voice

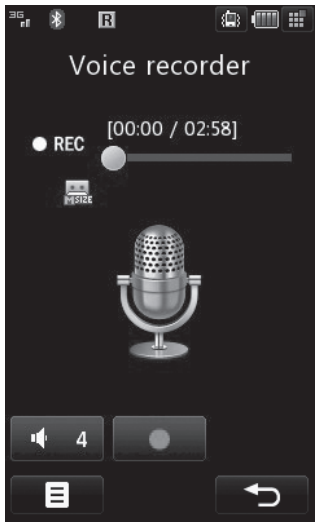
1 Touch ⋮⋮ then ▭ .

2 Touch **Voice recorder**.

3 Touch ● to begin recording.

4 Touch ■ to end recording.

5 Touch ▶ to listen to your recording.



Sending the voice recording

1 Once you have finished recording, touch .

2 Touch **Send** and choose from **Message, Email** or **Bluetooth**. If you choose **Message** or **Email**, the recording will be added to the message and you can write and send it as normal. If you choose Bluetooth, you will be prompted to turn Bluetooth on.

Note: After you have finished recording, touch and choose **Send, Rename, Delete, Use as** (to use the recording as your ringtone) or **Go to my sounds.**

FM radio

Using the radio

Your LG U990 has an FM radio feature so you can tune into your favourite stations to listen to on the move.

Note: You will need to insert your headphones in order to listen to the radio. Insert them into the headphone socket (this is the same socket that you plug your charger into).

Searching for stations

You can tune radio stations into your phone by searching for them either manually or automatically. They will then be saved to specific channel numbers so you don't have to keep re-tuning. You can save up to 12 channels in your phone.

To auto tune:

1 Touch then .

2 Touch **FM radio** then .

3 Touch **Auto scan** then **Yes**. The stations found will automatically be allocated to a channel number in your phone.

Multimedia menu

To manually tune:

1 Touch then .

2 Touch **FM radio** then .

3 Touch **Manual tuning** and enter the station frequency.

4 Touch **OK**, then **Save**.

5 Select the channel number you want to save the station to and touch **OK**.

Note: You can also manually tune into a station by using and displayed next to the radio frequency.

Editing the channels

You may want to move the stations to another channel so that the ones you listen to most frequently are easier to access.

1 Touch then .

2 Touch **FM radio** then .

3 Touch **Edit channels** and select the channel you want to change.

4 Either select a station from one of the other channels, or manually tune the channel into the frequency you want.

5 Touch **Save**.

Resetting channels

1 Touch then .

2 Touch **FM radio** then .

3 Touch **Edit channels** then .

4 Choose **Reset** to reset the current channel or choose **Reset all** to reset all of the channels. Each channel will return to the starting 87.5Mhz frequency.

Listening to the radio

1 Touch then .

2 Touch **FM radio** then touch the channel number of the station you would like to listen to.

TIP! To improve the radio reception, extend the headset cord, which functions as the radio antenna.

Games & Apps

My games & apps

This Handset supports Java™ so that you can download games from Planet 3, and play them on your handset.

> **TIP!** Please note that downloading a game usually requires additional charge.

This menu is used to locate and run downloaded applications, e.g. games. Select Download to view the list of applications that have been downloaded to the handset.

It takes you straight to 3's Games portal. This menu is used to go directly to the game download page, so that users can browse and select the games to download. This is possible because the Internet browser is launching with the game portal URL setting. This URL is specified in the Settings menu - Java Portal URL.

By default, the setting is on the game page of Planet 3 (or, it can be left blank if the Operator does not specify the URL). If users want to change the default setting, the game portal URL can be modified in the Settings menu.

Settings

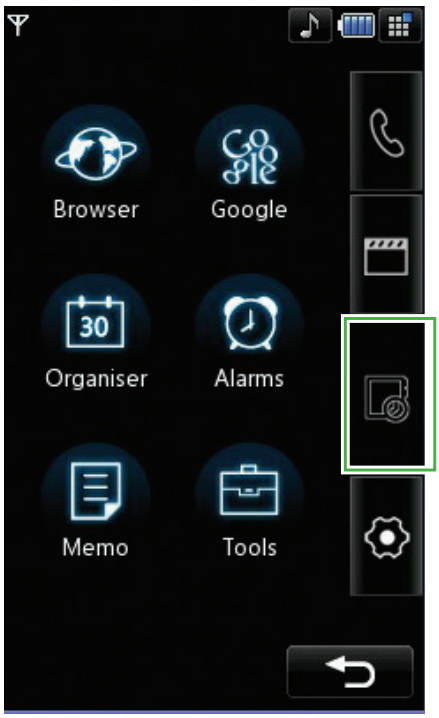
This menu is used to configure the Java Internet portal site to connect to in order to Download games & apps.

If this menu is selected, the list of currently saved Java Internet portal sites and the configured displayed.

The first Settings screen: Shows the item list if there are saved items.

Tap the to display the following popup menu items.

- **Add new:** New profile is added.
- **View:** Shows the contents of the selected item.



3 Tool menu

Tool menu

Browser

3 brings you a whole world of communications, information and entertainment services.

You can ask for directions within major cities, get the latest news, keep up to date with sports action and much, much more.

The browser is available in the 3G coverage area.

To launch the browser in standby mode, tap the Planet 3 .

Accessing the web

1 From the standby screen select , then touch and choose Browser.

2 To access the Browser homepage directly, select **Home**. Alternately select **Enter address** and type in your desired URL, followed by **Connect**.

Note: An additional cost is incurred when connecting to this service and downloading content. Check your data charges with your network provider.

Adding and accessing your bookmarks

For easy and fast access to your favourite websites, you can add bookmarks and save web pages.

1 From the standby screen select , then touch and choose Browser.

2 Select **Bookmarks**. A list of your Bookmarks will appear on the screen.

3 To add a new bookmark, select and touch **Add new**. Enter a name for your bookmark followed by the URL.

4 Touch **Save**. Your Bookmark will now appear in the list of bookmarks.

5 To access the bookmark simply scroll to the required bookmark and touch **Open**.
You will be connected to your bookmark.

Saving a page

1 Access your required webpage as described above.

2 Touch and select **Save this page**.

3 Enter a name for the webpage so you can easily recognise it.

4 Touch **Save.**

> **TIP!** This menu will also allow you to edit titles of saved pages, protect or unprotect the screen memo, and delete saved pages.

Accessing a saved page

1 From the standby screen select , then touch and choose Browser.

2 Select **Saved pages**.

3 Select the required page and touch , followed by **Open**.

Viewing your browser history

1 From the standby screen select , then touch and choose Browser. Select **History**.

2 A list of web page titles you have accessed recently will be displayed. To access one of these pages, simply select the required page and touch **Connect**.

Settings

Profiles

Select the appropriate profile by tapping the Activate [Activate] icon. This will activate the profile to initiate browser launch.

Character encoding

Sets the browser default character set to one of the following.

: Automatic, English(ASCII), English(ISO), English(LATIN), Unicode(UCS2 BE), Unicode(UCS2 LE), Unicode(UCS2 Auto), Unicode(UTF-16 BE), Unicode(UTF-16 LE), Unicode(UTF-16 Auto), Unicode(UTF-8).

Tool menu

Cache

Enabling Cache allows you to store accessed pages to your phone. Once a page has been stored in cache it will greatly enhance the page loading speed on subsequent browsing of the same page.

Cookies

Enabling Cookies allows you to store cookies sent from the server. Disabling this function will prevent cookies from being stored on your phone.

Java script

Select whether to turn JavaScript On or Off.

Security

Certificates

If stored, a list of root/ca certificates required for WTLS/TLS can be found here. Certificates can be viewed from the list.

Session clear

Secure (WTLS/TLS) session data can be cleared using this option. Session data should be cleared to establish a new secure session.

Reset settings

Select this to reset your phone to its default browser configuration.

Using your phone as a modem

Your U990 can double as a modem for your PC, giving you email and internet access even when you can't connect using wires. You can use either the USB cable or Bluetooth.

Using the USB cable:

1 Ensure you have the LG PC Suite installed on your PC.

2 Connect your U990 and your PC using the USB cable and launch the LG PC Suite software.

3 Click **Communication** on your PC. Then click Settings and select **Modem**.

4 Choose L**G Mobile USB Modem** and select **OK**. It will now appear on screen.

5 Click **Connect** and your PC will connect through your U990.

Note: For more information on synchronising using the LG PC Suite see page 129.

Using Bluetooth:

1 Ensure Bluetooth is switched On and **Visible** for both your PC and U990.

2 Pair your PC and U990 so that a passcode is required for connection.

3 Use the **Connection wizard** on your LG PC Suite to create an active Bluetooth connection.

4 Click **Communication** on your PC. Then click **Setting**.

5 Click **Modem**.

6 Choose **Standard Modem over Bluetooth link** and click **OK**. It will now appear on screen.

7 Click **Connect** and your PC will connect through your U990.

Note: For more information on Bluetooth see page 126.

Google

You can access Google and use the followings; Search, Maps, Blogger and YouTube.

Search

You can search the web-pages in this menu.

Mail

You can receive or send e-mail. For details, please contact your service provider.

Maps

Find Business

You can search the specific place such as hote, coffee shop, restaurant in a map.

Find Location

You can move the place you want to find out.

Tool menu

Directs

You can set your location when you start searching the map.

PAN Around

You can move the place you want by navigation keys.

Satellite View

You can convert the menu from map to satellite view.

Map View

You can convert the menu from satellite to map view.

Clear Map

You can clear all search results in Find Business or Find location.

Zoom In/Out

You can zoom in/out the image.

Help

You can read Help menu to view the explanation in each function of map in details.

Show traffic

You can view the information of traffic in selected current map.

Hide Traffic

You can hide the information related to the traffic status.

Quit

You can exit the menu.

Blogger

You can view your friends' Blogger pages or log into your own and manage your postings.

YouTube

You can view your friends' Youtube pages or log into your own and manage your postings.

Organiser

Calendar

Adding an event to your Calendar

1 From the standby screen select then touch and choose **Organiser**. Select **Calendar**.

2 Select the date you would like to add an event to.

3 Touch then **Add new event**.

4 Select whether you would like to add an **Appointment, Anniversary** or **Birthday** and touch **OK**.

5 Check the date and enter time you would like your event to begin.

6 For appointments and anniversaries enter the time and date your event finishes in the lower two time and date boxes.

7 If you would like to add a subject or a note to your event, touch **Subject** or **Name** and type in your note, followed by **OK**.

8 Select **Save** and your event will be saved in the calendar. A square cursor will mark the day that any events have been saved to and a bell will ring at the start time of your event, so that you can stay organised.

> **TIP!** You can set a holiday period in your calendar. Touch each day you are on holiday one at time, then touch and select **Holiday**. Each day will be shaded red. When you come to set an alarm, you can choose to exclude days set as holiday.

Changing your default calendar view

1 From the standby screen select , then touch and choose **Organiser**. Select **Settings**.

2 Touch **Calendar** and choose either **Month view** or **Week view**.

3 Press **OK** to confirm your choice.

Tool menu

To do

Adding an item to your to do list

1 From the standby screen select , then touch and choose Organiser.

2 Select To do and touch Add.

3 Set the date for the to do item, add notes and select a priority level: High, Medium or Low.

4 Save your to do list item by selecting Save.

> **TIP!** You can edit a item by selecting it, and touching . Now select Edit. Confirm your amends by selecting Save.

Sharing a to do item

1 From the standby screen select , then and choose **Organiser**. Select **To do**.

2 Select the to do item you would like to share, then touch .

3 Select **Send**. You can choose to share your to do item by **Text message, Multimedia msg., Email** or **Bluetooth**.

> **TIP!** You can back up and synchronise your calendar with your computer.

Date finder

Using Date finder

Date finder is a handy tool to help you calculate what the date will be after a certain amount of days has passed. For example, 60 days from 10.10.07 will be 09.12.2007. This is great for keeping tabs on deadlines.

1 From the standby screen select , then touch and choose **Organiser**.

2 Select **Date finder**.

3 In the **From** tab set your required date.

4 In the **After** tab set the number of days.

5 The **Target date** will be shown below.

Settings

Calendar

You can set the view option and start day related calendar.

Backup calendar & to do

This function allows you to back up calendar and to do data.

Restore calendar & to do

This function allows you to restore calendar and to do data.

Memory info.

Allows you to view each memory status of the organiser menu.

Clear all

Allows you to delete all the saved items, you need to input the security code.

Alarms

Setting your alarm

1 From the standby screen select , then and choose **Alarms**.

2 Select and touch **Add new**.

3 Set the time you would like the alarm to sound and touch **Set**.

4 Choose whether you would like your alarm to sound **Once, Daily, Mon - Fri, Mon - Sat, Sat - Sun** or **Except holiday**. Press **OK**.

5 Select to select a sound for your alarm. To listen to sounds touch the sound, followed by **Play**. After you have made your selection, touch **Select**.

Tool menu

6 Add a memo for the alarm. Touch **OK** when you have finished typing the memo. When the alarm sounds the memo will be displayed.

7 Finally you can set the snooze interval at **5, 10, 20, 30**minutes, **1**hour or **off**. Press **OK** to confirm your choice.

8 Once you have set your alarm, touch **Save**.

Note: You can set up to 5 alarms.

Memo

Adding a Memo

1 From the standby screen select , then touch and choose **Memo.**

2 If there are no existing memos, select **Add** or if you have already added some memos, select followed by **Add new**.

3 Type your memo, followed by **Save**.

4 Your memo will appear on screen next time you open the **Memo** application.

TIP! You can edit an existing memo. Select the one you want to edit and touch **Edit.**

Tools

Calculator

Using your Calculator

1 From the standby screen select , then touch and choose **Tools**.

2 Select **Calculator.**

3 Touch the numeric keys to input numbers.

4 For simple calculations, touch the function you require (+, -, ÷, ×), followed by .

5 For more complex calculations, touch and choose from **sin, cos, tan, log, ln, exp, sqrt, deg** or **rad**.

World clock

Adding a city to your world clock

1 From the standby screen select , then touch and choose **Tools**.

2 Select **World clock**.

3 Touch the icon, followed by **Add city**. Start typing the name of the city you require and it will show at the top of the screen. Alternately touch **Map**, and select your chosen city from the map.

4 Touch Select to confirm your choice.

> **TIP!** If you are abroad you can change your time zone from World Clock by touching , followed by **Change time zone**. Choose your required time zone as above, and touch **Select**.

Converter

Converting a unit

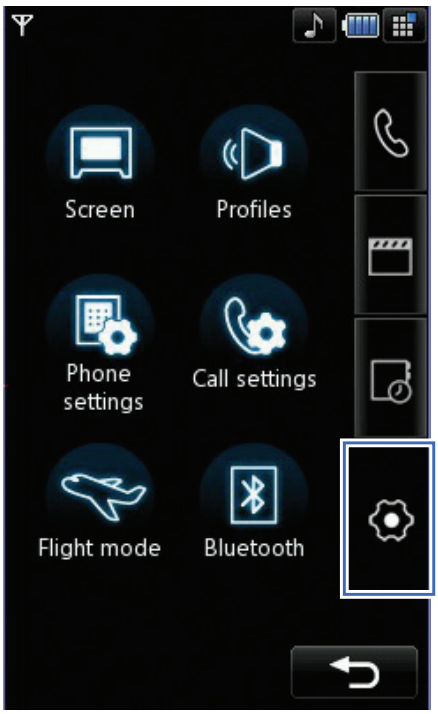
1 From the standby screen select , then touch and choose **Tools**.

2 Select **Converter**.

3 Choose whether you would like to convert **Currency, Surface, Length, Weight, Temperature, Volume** or **Velocity**.

4 You can now select the unit, and enter the value you would like to convert from, followed by the unit you would like to convert to.

5 The corresponding value will appear on the screen.



4 Setting menu

Setting menu

Screen

Screen theme

This menu allows you to personalise the display options of the screens and of the menus' entire graphic interface.

Home screen

Set a wallpaper for the standby screen.

Outgoing call

You can select the image to be displayed while dialling a number.

Start-up

You can select the image to be displayed while the videophone is being switched on.

Shut down

You can select the image to be displayed while the videophone is being switched off.

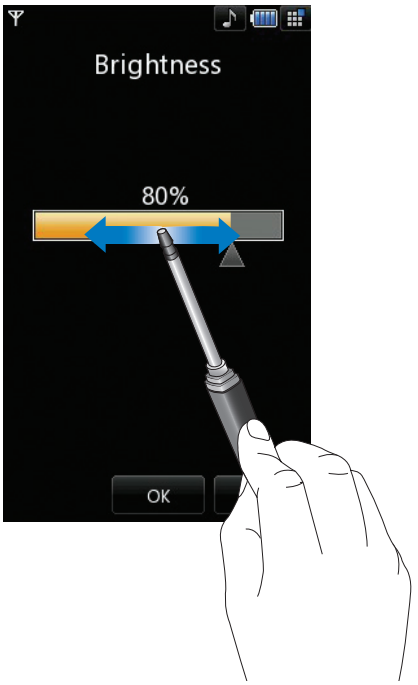
Clock & Calendar

Using this function, you can see the clock and calendar in the idle window. You can also move the clock by dragging.

Brightness

You can set the brightness of the LCD: 100%, 80%, 60%, 40%, 20%

Flick or drag left or right to scroll.



Backlight

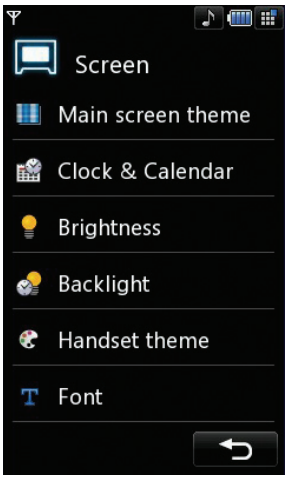
Allows you to set backlight duration, selecting from the following options.

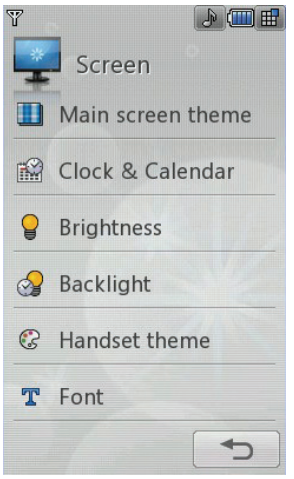
Item	Default Value
Main screen duration	10 seconds 20 seconds 30 seconds 60 seconds

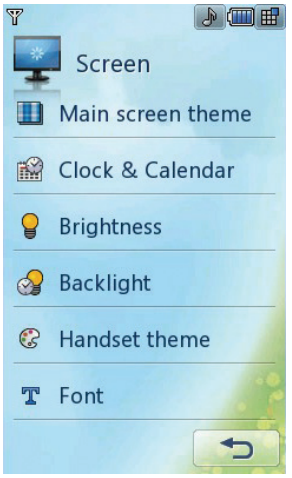
Note: The longer the backlight is on for, the more battery power is used and you may need to charge your phone more often.

Handset theme

You can set the theme of display.



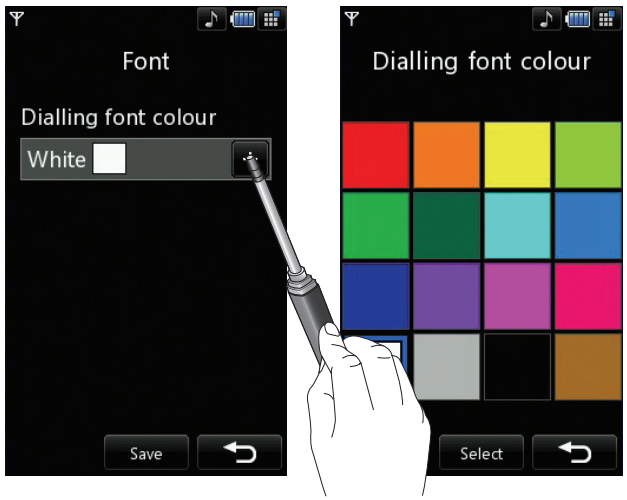




Setting menu

Font

- **Dialing font colour:** Allows you to select from among 16 available character colours.



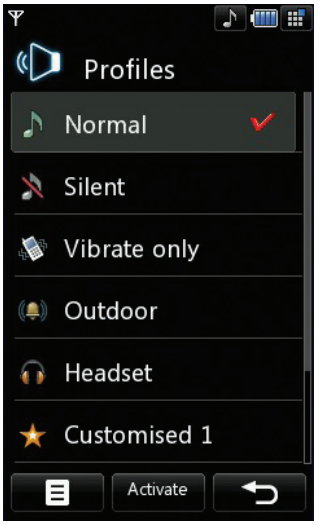
Profiles

The profiles menu allows you to personalise and set call tones, message tones, and videophone event tones.

The Normal, Outdoor and Headset profiles are preset by the manufacturer, but may be personalised.

The Silent and Vibrate only profiles are preset and CANNOT be personalised by the User.

User define menus 1,2, and 3 are completely available to users for all their needs.



Alert by

This option determines the incoming call notification mode.

Voice ringtone

You can select the ringtone for incoming voice calls.

Video ringtone

You can select the ringtone for incoming video calls.

Volume

Set the ringtone volume.

Message alert

You can set how often the phone is to inform you of a received message until it is read.

Message tone

You can select a file from among your own personal files or from the default files, to be played by the phone upon receiving a message.

Touch type

You can set the touch type for tapping menu.

Touch tone

You can set the touch tone to be played when tapping the screen.

Touch tone volume

You can set the volume of the touch tone, choosing from 7 available levels.

Touch vibration

You can set the type of vibration.

Touch vib volume

You can set the vibration level.

Confirmation tone

You can set the confirmation tone to be played by the phone to confirm actions.

Switch on sound

You can set the effect to be played when the phone is switched on.

Setting menu

Switch on file

You can select which file will be played when the phone is switched on.

Switch off sound

You can set the effect to be played when the phone is switched off.

Switch off file

You can select which file will be played when the videophone is switched off.

Phone settings

Date & Time

Date

You can set the current date and date format.

Time

You can set the time, time format, time zone and daylight saving.

Auto update date/time

When Auto Update is configured to On, the time and date are automatically updated according to the current time zone. If Confirm first is selected, time and date update are confirmed before the automatic update.

Daylight saving

This function enables Summer time. Configuring Daylight saving to On immediately applies summer time for the cities which observe daylight saving and currently daylight saving period is running. (For example, if the current time is 04:53 and daylight saving is running in the currently selected home city in World time then time will change to 05:53).

Power save

If you set On, you can save the power when you don't use the phone.

Languages

This function allows you to set the language used in the handset.

Security

PIN code request

In this menu, you can set the phone to ask for the PIN code of your USIM card when the phone is switched on.

If this function is activated, you'll be requested to enter the PIN code.

1. Select Request PIN code in the security settings menu.
2. Set On/Off.
3. If you want to change the setting, you need to enter PIN1 code.
4. If you enter wrong PIN1 code more than 3 times, the phone will lock out. If the PIN1 is blocked, you will need to key in PUK1 code.
5. You can enter your PUK code up to 10 times. If you put wrong PUK code more than 10 times, you can not unlock your phone. You will need to contact your service provider.

Setting menu

Handset lock

You can lock your phone. The following 4 lock functions are available.

When switching on: Locks the handset whenever the handset is switched on.

If USIM changed: Locks the handset when the phone's USIM card has been changed.

Immediate: Locks the handset immediately.

None: Deactivates the lock function.

You are requested to enter the security code to confirm the selection.

- To unlock the handset, you need to enter the security code.

Auto key lock

If you activate this function, the key will be locked automatically in standby mode without requesting the action of key.

Change codes

You can change PIN, PIN2 and the security code.

> **TIP!** If you change the code and then forget it you will need to contact your place of purchase to unlock it or solve this problem.

- **PIN/PIN2 code:** This menu allows you to change the PIN or PIN2 code.

1. Select PIN or PIN2 Code.
2. Input the current PIN or PIN2 code, and then a new PIN or PIN2 code.
   Entering an incorrect PIN code 3 times invalidates the PIN code. In this case, you will need to enter the PUK or PUK2 code in order to reset the PIN code.
3. Entering an incorrect PUK code 10 times will restrict use of the handset. In this case, ask 3 Customer Service to unlock your phone.

- **Security code:** This menu allows you to change the handset password. The maximum allowed numeric of attempts of security code input is not limited like PIN and PIN2.

Connectivity

Network settings

Select network

- **Automatic:** This function automatically searches for the network and registers the handset to the network.
- **Manual:** This function enables you to search the network list and specify which network to attempt registration with.

Location mode

You may have multiple data connections active at the same time when you are using your phone in Automatic, 3G only, 3G/GSM and GSM1900 networks.

Preferred lists

If the network is searching automatically, you can add a preferable network to be connected to. And the following options are available.

- **Add new:** You can add a new network using the followings.
  - Search: You can select one from the network list stored in the phone.
  - Enter new network: You can enter the country code (MCC) and the network code (MNC) to add. After setting, tap the OK [OK] icon.
- **Edit:** You can modify the information of the selected network.
- **Delete:** Deletes the selected network.
- **Move up:** Moves the selected network upward.
- **Move down:** Moves the selected network downward.

Access points

This menu shows the access point list. You can create new profiles, delete or edit them by using the Option Menu. However, you cannot delete or edit default configurations depending on country variant.

You can edit the follwing configuration items by using the .

Setting menu

Connection title - Access Point profile name.

Bearer - Choose the bearer from the list. (Default is UMTS.)

Authentication - Choose the authentication from the list. (Default is No auth)

User name - Information provided by service provider.

Password - Information provided by service provider.

APN - APN name to access network. Information provided by service provider.

- Tap [Save] to save any configuration changes.

USB connection mode

You can choose one mode of Data service and Mass storage.

When you have finished using the phone memory, take the following steps.

You can use PictBridge printer in Data service mode

Caution! Before you remove the cable, it is necessary to keep the following steps. Or, the integrity of transferred data is not guaranteed.

1. Click on the notification area.[Unplug or Eject Hardware]
2. Select USB Mass Storage Device, click on Stop.

The following message will appear:"The 'USB Mass Storage Device' device can now be safely removed from the system"

3. Then remove the cable.

TIP! When you save a PC file into the mass storage, the filename must consist of up to 62 characters and 255 characters or less including the path of directory may be displayed on your phone.

Synch service

(**Note:** This service is not available in all countries. Please contact your service provider for further information.)

If Sync service is supported by your network operator, this service function synchronizes the data in a phone and the data on a server such as Contacts, Calendar and Tasks via a wireless network.

Connect

Connect to the server with the selected server profile and the synchronization animation is displayed while the synchronization is performed.

Logs

Select the Logs to view the log for the last synchronization operation performed.

Server synch. Centre

This menu allows you to configure the profile for a synchronization server.

- **Profile name:** Input the name for the profile.
- **Host address:** Contact your service provider.
- **SyncML proxy:** Contact your service provider.
- **User name:** Enter your user ID for synchronization server.
- **Password:** Input your password.
- **Contacts:** Select whether to synchronise Contacts or not.
- **Contact name:** Input the contacts database name for server access.
- **Calendar:** Select whether to synchronise Calendar or not.
- **Calendar name:** Input the calendar database name for server access.
- **To do:** Select whether to synchronise Tasks or not.
- **To do name:** Input the Tasks database name for server access.
- **Memo:** Select whether to synchronise Memo or not.

Setting menu

- **Memo name:** Input the Memo database name for server access.
- **Sync type:** Select the synchronization type below.
  - Normal
    The phone and the server are required to exchange information about the modified data.
  - Backup
    The phone sends all the data from a database to the server. The server is expected to replace all data in the target database with the data sent by the phone. This means the phone overwrites all the data in the server database.
  - Restore
    The server sends all its data from a database to the phone. The phone is expected to replace all data in the target database with the server sent by the server. This means the server overwrites all data in the phone database.
- **Access point:** Select an access point to use for the data connection.
- **Sync mode:** Select the synchronization mode below.
  - Manunal
    The synchronisation will only occur when explicitly initiated by the user.
  - Automatic
    The application will automatically initiate a sync, based on the preferences defined (either a regular reminder or after changes have been made.)
- **Sync frequency:** Select the automatic sync preference when you choose automatic sync mode.

TV out

Choose PAL or NTSC for connecting your U990 to a TV.

Note: The TV output cable is available for purchase separately.

Memory manager

Using memory manager

Your U990 has three memories available: the phone, the USIM Card and an external memory card (you may need to purchase the memory card separately).

You can use memory manager to determine how each memory is used and see how much space is available.

Handset common memory - View the memory available on your U990 for Pictures, Sounds, Video, Flash, MMS, Email, Java applications and others.

Handset reserved memory - View the memory available on your handset for SMS, Contacts, Calendar, To do list, Memo, Alarm, Call history, Bookmarks and Miscellaneous items.

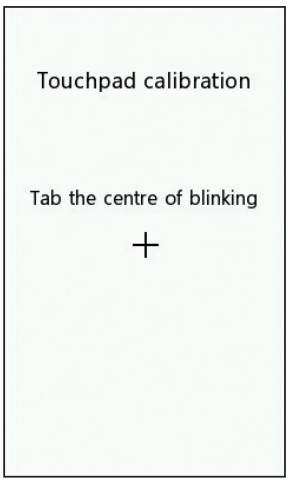
USIM memory - View the memory available on your USIM Card.

External memory - View the memory available on your external memory card (you may need to purchase the memory card separately).

Primary storage settings - Choose the location you prefer items to be saved to.

Touchpad calibration

Reset your screen for ease of use.



Software update

Users can update Software by him/herself, if there is a version to be updated.

Reset settings

Reset all the settings to their factory definitions.

Setting menu

Handset information

View the technical information for your U990.

Call settings

Call divert

Call divert menus for voice and video calls are provided.

The menu consists of Voice calls, Video calls and Deactivate all.

Voice calls

- **All voice calls:** Diverts all incoming voice calls unconditionally.
- **When busy:** Diverts incoming voice calls when the line is busy.
- **No answer:** Diverts incoming voice calls when there is no answer.
- **Not reachable:** Diverts incoming voice calls when the handset is turned off or the handset is out of the network service coverage

Video calls

You can divert video calls to other 3 handsets that support video calling.

- **All video calls:** Diverts all incoming video calls unconditionally.
- **When busy:** Diverts incoming video calls when the line is busy.
- **No answer:** Diverts incoming video calls when there is no answer.
- **Not reachable:** Diverts incoming video calls when the handset is turned off or the handset is out of the network service coverage.

Deactivate all

All call divert settings are deactivated.

Call barring

Call barring allows you to restrict from making and receiving calls with your handset. For this function, you need the barring password, which you can obtain from 3 Customer Service.

Voice calls

The following options are available:

- **All outgoing:** Calls cannot be made.
- **Outgoing international:** International calls cannot be made.
- **Outgoing international calls except home country:** When abroad, calls can be made only to numbers within the current country and to your home country, which is where your home network provider is located.
- **All incoming:** Calls cannot be received.
- **Incoming when abroad:** Calls cannot be received when you are using your handset outside your home service area.

Video calls

The following options are available:

- **All outgoing:** Calls cannot be made.
- **Outgoing international:** International calls cannot be made.
- **Outgoing international calls except home country:** When abroad, calls can be made only to numbers within the current country and to your home country, which is where your home network provider is located.
- **All incoming:** Calls cannot be received.
- **Incoming when abroad:** Calls cannot be received when you are using your handset outside your home service area.

Deactivate all

All call barring settings are deactivated; calls can be made and received normally.

Setting menu

Fixed dial numbers

You can fix dialling to specified phone numbers only. This information is saved on the USIM card. You must enter your PIN2 code for authentication.

- **On:** Enables Fixed Dial Numbers.
- **Off:** Disables Fixed Dial Numbers.
- **FDN list:** You can view and edit the Fixed Dial Number list.

Call waiting

- **Activate:** Activates waiting service. Selecting this item, displays requesting message and animation. When the network answers, the result of the operation is displayed.
- **Deactivate:** Deactivates Call waiting service. Selecting this item displays requesting message and animation. When the network answers, the result of the operation is displayed.
- **View status:** Displays activated Call waiting service group item of the network. Selecting this item displays requesting message and animation. When the network answers, the result of the operation is displayed.

Common setting

Call reject

This menu allows you to enable or disable rejection of all calls or calls categorized as Unregistered, Contacts or Groups.

- **Reject On/Off:** To enable or disable the Call reject.
- **Reject list:** To select the category of call reject numbers. You can select any of the following categories:
  - All calls: this category is selected, all calls will be rejected.
  - Contacts: If this category is selected, all numbers in contacts list will be rejected.

- Groups: If this category is selected, all numbers belonging to the selected groups will be rejected.
- Unregistered: If this category is selected, all un-registered numbers will be rejected.
- No caller ID: Reject calls which do not have CLI information.

Send my number

This network service allows you to set your phone number to be displayed On or hidden Off from the person whom you are calling. Select Set by network to reset the handset to the setting that you have agreed upon with 3 Customer Service.

Auto redial

The menu enables you to configure the auto redial function when a call attempt has failed.

Answer mode

Allows you to determine when to answer the handset.

- **Press send key:** You can answer an incoming call by only pressing the key.
- **Press any key:** You can answer an incoming call by pressing any key, except the key.

Minute minder

This function sounds an alert notification every 1 minute after call connection.

BT answer mode

This menu allows you to determine when to answer an incoming call in using Bluetooth connection mode.

- **Hands-free:** You can answer an incoming call on the hands-free device that is connected with your handset. When the phone is receiving a call, a ring tone will be heard on the hands-free.
- **Handset:** This feature allows you to answer an incoming call on the handset, even though the handset is connected with hand-free device.

Setting menu

Save new number

Whenever the connected call is terminated, this menu allows you to determine whether you are going to save the number (unregistered) in your phone book.

Video call setting

You can set the screen display when making/receiving a video call.

- **Use private picture:** Determine whether to show the private image or not.
- **Select private picture:** Select the private image to be displayed.
- **Mirror:** Select to activate the mirror effect or not.
  - On: Displays the image flipped side to side.
  - Off: Displays the image as it is.
- **My image size:** Select my image size to be displayed.

Flight mode

Using flight mode

Turn on flight mode by selecting then . Touch **Flight mode** and select **On**. Flight mode will not allow you to make calls, connect to the Internet, send messages or use Bluetooth.

Bluetooth

Sending and receiving your files using Bluetooth

Bluetooth is a great way to send and receive files as no wires are needed and connection is quick and easy. You can also connect to a Bluetooth headset to make and receive calls.

To send a file:

1 Open the file you want to send, typically this will be a photo, video or music file.

2 Touch and choose **Send**. Choose **Bluetooth**.

3 Touch **Yes** to turn Bluetooth on.

4 Your U990 will automatically search for other Bluetooth enabled devices within range.

5 Choose the device you want to send the file to and touch **Select**.

6 Your file will be sent.

> **TIP!** Keep an eye on the progress bar to make sure your file is sent.

To receive a file:

1 To receive files your Bluetooth must be both **On** and **Visible.** See change your Bluetooth setti ngs below for more information.

2 A message will prompt you to accept the file from the sender. Touch **Yes** to receive the file.

3 You will see where the file has been saved and you can choose to **View** the file or **Use as wallpaper**. Files will usually be saved to the relevant folder in My Stuff.

To change your bluebooth settings:

1 Touch and choose **Settings**.

2 Choose **Bluetooth** then **Settings**. Make your changes to:

My device visibility - Choose to be Visible or Hidden.

My device name - Enter a name for your U990.

Supported services - Choose how to use Bluetooth in association with different services. See **Using your phone as a modem** on page 100 or **Using a Bluetooth headset** on page 128.

My address - Change your Bluetooth address.

Pairing with another Bluetooth device

By pairing your U990 and another device, you can set up a passcode protected connection. This means your pairing is more secure.

Setting menu

1 Check your Bluetooth is **On** and **Visible**.
You can change your visibility in the **Settings** menu.

2 Touch **Paired Devices** then **New**.

3 Your U990 will search for devices. When the search is completed **Refresh** and **Add** will appear on screen.

4 Choose the device you want to pair with and enter the passcode then touch **OK**.

5 Your phone will then connect to the other device, on which you should enter the same passcode.

6 You passcode protected Bluetooth connection is now ready.

Using a Bluetooth headset

1 Check your Bluetooth is **On** and **Visible**.

2 Follow the instructions that came with your headset to place your headset in pairing mode and pair your devices.

3 Touch **Yes** to **Connect now**. Your U990 will automatically switch to Headset profile.

> **TIP!** See page 125 for details on **BT answer mode** so that you can control how you answer calls when your Bluetooth headset is connected.

PC Sync

You can synchronise your PC with your phone to make sure all your important details and dates match, but also as a backup to put your mind at ease.

Installing LG PC Suite on your computer

1 From the standby screen select , then touch and choose **Phone settings**.

2 Select **Connectivity**, then **USB connection mode**.

3 Select **Data Service** and touch **OK**.

4 Insert the supplied CD into your PC. **LG PC Suite Installer** will appear on your screen. Click on **LG PC Suite Installer**.

5 Select the language you would like the installer to run in and click **OK**.

6 Follow the instructions on screen to complete the LG PC Suite Installer wizard.

7 Once installation is complete, the LG PC Suite icon will appear on your desktop.

Connecting your phone and PC

1 Connect the USB cable to your phone and your PC.

2 Double click on the **LG PC Suite Icon** on your desktop.

3 Click on **Connection Wizard**, then **USB**.

4 Click on **Next**, then **Next** again, then **Finish**. Your phone and PC are now connected.

Backing up and restoring your phone's information

1 Connect your phone to your PC as outlined above.

2 Click on the **Backup** icon, and select **Backup** or **Restore**.

3 Mark the contents you would like to back up or restore. Select the location you would like to backup information to, or restore information from. Click **OK**.

4 Your information will be backed up.

Viewing your phone files on your PC

1 Connect your phone to your PC as outlined above.

2 Click on the **Contents** icon.

3 All of the documents, flash contents, images, sounds and videos you have saved onto your phone will be displayed on the screen in the LG Phone folder.

> **TIP!** Viewing the contents of your phone on your PC helps you to arrange fi les, organise documents and remove contents you no longer need.

Synchronising your contacts

1 Connect your phone to your PC.

2 Click on the **Contacts** icon.

3 Select **Transfer**, then **Import from mobile handset**. Your PC will now import and display all contacts saved to your USIM card and handset.

4 Click on **File** and select **Save**. You can now select where you would like to save your contacts to.

Note: To backup contacts saved to your USIM card, click on the SIM card folder on the left side of your PC screen. Select **Edit** at the top of the screen, then **Select all**. Right-click your contacts and select **Copy to contact**. Now click on the **Handset** folder on the left of your screen and all your numbers will be displayed.

Synchronising your messages

1 Connect your phone to your PC.

2 Click on the **Messages** icon.

3 All of your PC and phone messages will be displayed in folders on your screen.

4 Use the tool bar at the top of your screen to edit and rearrange messages.

Using your phone as a mass storage device

You phone can only be used as a mass storage device if you have a memory card inserted.

1 Disconnect your phone from your PC.

2 From the standby screen select , then touch and choose **Phone settings**.

3 Select **Connectivity**, then **USB connection mode**.

4 Select **Mass storage** and touch **OK**.

5 Connect your phone to your PC. Your phone will read: **Connecting as Mass Storage**… followed by **Connected as Mass Storage Mode**. **Do not disconnect during transfer**.

6 All of your phone files will automatically be stored onto your PC hard drive.

Note: Your phone must be unplugged from your PC to initiate Mass Storage.

Note: Mass storage backs up content saved on your memory card only, not your handset memory. To transfer the content of your handset memory (e.g. contacts) you'll need to synchronise using PC Sync.

DivX Converter

Install the DivX converter which is supplied on the same CD as the PC Sync software.

Once installed select DivX from the Program Files on your PC, then DivX converter followed by Converter.

This will open the Converter application. Use the arrows in the application to change the conversion format to Mobile. If you do a right click on the application box and select Preferences, you can change the location of where the converted files are saved.

Once you are ready to convert your files, simply drag and drop the files into the application, for initial analysis. Following this, you will need to select Convert for the process to begin. When the process is finished a Conversion complete pop up will be displayed.

The converted file can now be transferred to your phone, using the Mass Storage functionality (see page 131 for details) or Upload via contents using the PC Sync software (see page 129 for details).

And so on...

Troubleshooting

Please check to see if any problems you have encountered with the phone are described in this section before calling 3 Customer Service.

Q How do I view the list of outgoing calls, incoming calls and missed calls?

A Press the key.

Q Why is the connection inconsistent or not audible in certain areas?

A When the frequency environment is unstable in a certain area, connection may be inconsistent and not audible. Relocate to another area and try again.

Q Why does the display not turn on?

A Remove and insert the battery, then attempt to power-on. If there is no change, fully charge the battery and try again.

Q Why is there an echo when a connection is made with certain telephones in a certain area?

A This is called the 'Echo Phenomenon', where it occurs if connection volume is too high or caused by special properties (semi electronic telephone exchange) of the equipment on the other end.

Q Why does the handset heat up?

A The phone may get hot when there is a very long call duration or when games are played or when using the browser. This has no effect upon the life of the product or performance.

Q Why is there no ringtune, but only a blinking LCD screen?

A Phone may be set to 'Vibrate only' or in 'Silent' mode. In the Profiles menu, please select 'Normal' or 'Outdoor.

Q Why does the battery life get shorter in standby mode?

A The battery is worn out. As time passes, the battery life gradually becomes shorter. If the battery lasts about half the amount of time as when first purchased, it's time to purchase a new battery.

Q Why does the battery run out so quickly during normal use?

A It is due to the user environment or a large number of calls or weak signal.

Q Why is no number dialed when you recall a Contacts entry?

A Check that the number has been stored correctly by using the Contacts feature. Re-store them, if necessary.

Q Incoming calls do-not reach me.

A Is your phone switched on (pressed for more than three seconds)? Are you accessing the right cellular network? Or, you may have set an incoming call barring option.

Q I cannot find the lock, PIN, or PUK code. What is my PIN?

A The default lock code is '0000'. If you forget or lose the lock code, contact your phone dealer. If you forget or lose a PIN or PUK code, or if you have not received such a code, contact 3 Customer Services.

Q What happens to the handset if it is dropped?

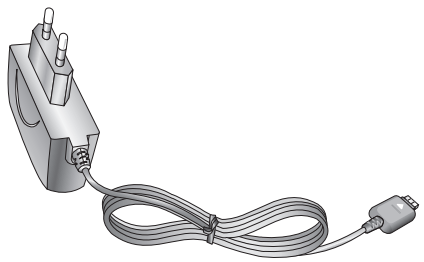
A The handset could power off or reset, but this does not necessarily imply any permanent damage.

Accessories

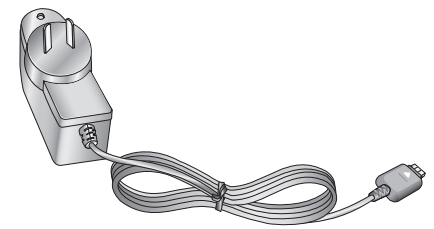
Charger

This adapter allows you to charge the battery. It supports standard Europe/Australia/ U.K. and Hongkong (100-240 Volt 50/60Hz outlets).

It takes 3.5 hours to charge a completely discharged battery.



Europe

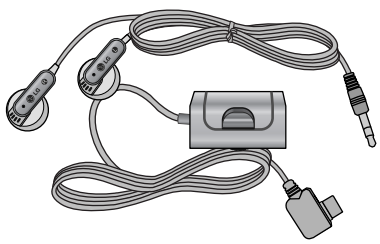


Australia

U.K and Hongkong

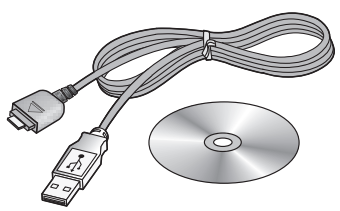
Headset

Connects to your phone, allowing hands-free operation. Includes earpiece, microphone, and integrated call answer/ termination button.



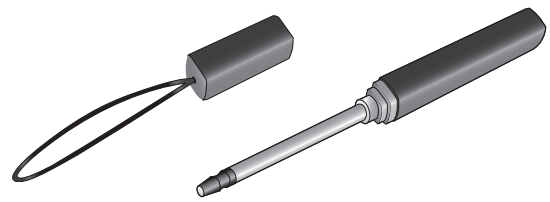
Data cable and CD

Connect and synchronise your U990 and PC.



Battery

Stylus and carry strap



Glossary

2G

Second Generation wireless communication system. 2G system supports low quality voice and low-rate packet-data service. 2G refers to GSM in European countries, and CDMA in America.

3G

Third Generation wireless communication system. 3G means next generation wireless communication system developed based on the second generation wireless communication systems. 3G system supports real-time communication service and high-rate packet-data service. 3G refers to UMTS developed based on GSM in European countries,

Access point

Access point refers to a point through which users can connect to the network so that the users can use the network services.

AMR

Adaptive Multirate codec. A voice codec developed by ETSI for GSM. AMR supports 8 coding rates (from 4.75 to 12.2Kbps) so as to adaptively provide the quality of voice service in various radio channel conditions.

Download

Download means transmitting files from one computer system to another. Downloading usually means transmitting files from a big system to a small system.

Java™

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a Java applet. When it is run on a mobile phone or pager, it is called a MIDlet.

Line Identification Services (Caller ID)

Service allowing subscribers to view or block the telephone numbers of callers.

MIDI

Musical Instrument Digital Interface. A file format to save digitized musical instrumental data. The original meaning of MIDI, or Music Instrument Digital Interface is a protocol to exchange data between a computer and electric instruments.

MMS (Multimedia Message Service)

A message service for the handset environment, standardised by the WAP Forum and the 3rd Generation Partnership Program (3GPP). For phone users, MMS is similar to Short Message Service (SMS)-it provides automatic, immediatedelivery of user-created content from phone to phone. The message addressing used is primarily phone numbers, thus the traffic goes from phone to phone. MMS also provides support for e-mail addressing, so that messages can also be sent by email. In addition to the text content of SMS, MMS messages can contain still images, voice or audio clips, and later also video clips and presentation information.

MP3

Moving Picture Experts Group Layer-3 Audio. A file format to provide high-quality audio whose quality is equal to that of CD. MP3 is a digital audio standard developed by MPEG, or Moving Picture Experts Group and is widely used for digital audio files.

MPEG4

Motion Picture Experts Group 4. A digital video standard developed by MPEG, or Moving Picture Experts Group. MPEG4 compresses video data so that a large video file can be transmitted, and saved more easily. MPEG4 is suitable especially for mobile environment.

Glossary

Multimedia

Multimedia means media that include various media data such as voice, character string, image, and video data. Currently, the meaning of multimedia includes services provided through multimedia.

Multiparty Calls

Ability to establish a conference call involving up to five additional parties.

Roaming

Use of your phone when you are outside your home area (when traveling for example).

SDN (Service Dial Number)

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

SMTP

Simple Mail Transfer Protocol. A protocol to transfer e-mails between computers over the Internet. SMTP defines the format of control messages between computers, and interaction procedures between them to send e-mails.

Quick play

Quick play means a new type of service that enables users to listen to an audio or watch video without downloading complete audio or video file so that contents providers can provide audio or video data such as movie or news over the network in real-time on users' demand.

Sync

Sync means synchronizing PIM (Personal Information Management) data such as contact information, schedule, to-do, and memo with a PC or an external server.

UMTS

Universal Mobile Telephony System. UMTS refers to asynchronous 3G wireless technology of WCDMA that is developed based on GSM, the 2G wireless technology.

USB

Universal Serial Bus. A bus type interface that provides fast and flexible connection between devices and a computer.

USIM

Universal Subscriber Identity Module. An IC card used for UMTS the shape of which is the same as that of the SIM card of GSM. USIM is provided by network operator, and carries the authentication and service grade data for the network operator as well as user-specific data.

Video call

A communications service that enables users to talk watching each other over a 64Kbps data channel. Real-time video call service is a new type of service provided by WCDMA wireless communication system that is developed based on GSM+GPRS technology.

Voice mail

Computerised answering service that automatically answers your calls when you are not available, plays a greeting and records a message.

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Declaration of Conformity

LG Electronics

Suppliers Details

Name

LG Electronics Inc

Address

LG Electronics Inc. LG Twin Towers 20,
Yeouido-dong, Yeongdeungpo-gu, Seoul, Korea 150-721

Product Details

Product Name

GSM 900 / DCS 1800 / PCS 1900 / W-CDMA Terminal Equipment

Model Name

KU990 / U990

Trade Name

LG

CE 0168

Applicable Standards Details

R&TTE Directive 1999/5/EC

ETSI EN 301 489-01 V1.6.1, ETSI EN 301 489-07 V1.3.1
ETSI EN 301 489-17 V1.3.1, ETSI EN 301 489-24 V1.3.1
ETSI TS 151 010-1 V5.9.0 specified by ETSI EN 301 511 V9.0.2
ETSI TS 134 121 V5.5.0 specified by ETSI EN 301 908-1 V2.2.1 ETSI EN 301 908-2 V2.2.1,
ETSI EN 300 328 V1.6.1
EN 50360/EN 50361:2001
EN 60950-1 : 2001

Supplementary Information

Declaration

I hereby declare under our sole responsibility that the product mentioned above to which this declaration relates complies with the above mentioned standards and Directives

Name	Issued Date
Jin Seog, Kim / Director	06. Aug. 2007

Signature of representative

LG Electronics Inc. Amsterdam Office
Veluwezoom 15, 1327 AE Almere, The Netherlands
Tel : +31 - 36- 547 - 8940, e-mail : seokim @ lge.com

Ambient Temperatures

Normal (55°C), charging (45°C)

Emergency Services and Safety Precautions

- Do not allow battery to come into direct contact with an electric outlet or car cigarette lighter socket
- Do not pierce battery with sharp objects
- Do not drop or subject the phone to physical shock
- When the battery has reached the end of its life, dispose of it in accordance with local environmental regulations. Do not dispose of your battery in household rubbish.
- Do not immerse in water
- Do not disassemble or modify the battery
- Stop using the battery if abnormal heat, odour, discolouration, deformation, or abnormal conditions are detected during use, charge, or storage
- Do not use damaged or deformed batteries. In the unlikely event of a battery leak, take care to keep the battery discharge away from your eyes or skin.
- If the leakage does come into contact with the eyes or skin, please wash thoroughly in clean water and consult with a doctor
- The earpiece may become warm during normal use. The handset itself may become warm while the battery is being charged
- Use a damp or anti-static cloth to clean the handset. Do not use a dry cloth or electrostatically charged cloth. Do not use chemical or abrasive cleaners as these could damage the phone
- Retain the cardboard packing supplied with this handset. It should be used if the phone has to be returned for service. This packaging can be recycled when no longer required
- Remember to make backup copies of all important data on your handset
- Use accessories, such as earphones and headsets, with caution.
  Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

Emergency Services and Safety Precautions

Aircraft safety

In accordance with CAA regulations, you must switch off your phone on aircraft. Mobile phone signals can interfere with aircraft equipment. Follow the instructions given by airline staff at all times

Hospital safety

Switch off your phone in areas where the use of handsets is prohibited. Follow the instructions given by the respective medical facility regarding the use of handsets on their premises

General safety

- Observe 'Turn off 2-way radio' signs, such as those near petrol stations, chemicals or explosives, and turn off your handset
- Do not allow children to play with the handset, charger or batteries
- Do not use the handset where blasting is in progress
- The operation of some medical electronic devices, such as hearing aids and pacemakers, may be affected if a handset is used next to them. Observe any warning signs and the manufacturer's recommendations

Avoid damage to your hearing

- Damage to your hearing can occur if you are exposed to loud sound for long periods of time. We therefore recommend that you do not turn on or off the handset close to your ear. We also recommend that music and call volumes are set to a reasonable level.
- If you are listening to music whilst out and about, please ensure that the volume is at a reasonable level so that you are aware of your surroundings. This is particularly imperative when attempting to cross the street.

Road safety

- You MUST exercise the proper control of your vehicle at all times. Give your full attention to driving
- Observe all laws in respect to the use of mobile phones when driving
- Pull off the road and park before making or answering a call where it is safe to do so. UK law prohibits the use of hand held mobile phones when driving
- You MUST NOT stop on the hard shoulder of a motorway to answer or make a call, except in an emergency
- Switch off your handset at refueling points and petrol stations, even if you are not refueling your own car
- Do not store or carry flammable or explosive materials near your handset
- Electronic vehicle systems, such as anti-lock brakes, speed control and fuel injection systems are not normally affected by radio transmissions
- The manufacturers of such equipment can advise if it is adequately shielded from radio transmissions. Consult your dealer and do not switch on the handset until it has been checked by qualified installers

Vehicles equipped with an air bag

An air bag inflates with great force. Do not place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result

Third party equipment

The use of third party equipment, cables or accessories, not made or authorised by LG, may invalidate the warranty of your handset and also adversely affect the handset's safety or operation

Emergency Services and Safety Precautions

Service

The handset, batteries and charger contain no user-serviceable parts. LG recommend that your LG U990 handset is serviced or repaired by an LG authorised service centre

Efficient use

The handset has an antenna. For optimum performance with minimum power consumption, please do not cover the antenna area with your hand. Covering the antenna affects call quality and may cause the handset to operate at a higher power level than required. This decreases talk and standby time.

Radio frequency energy

Your handset is a low-power radio transmitter and receiver. When it is turned on, it receives and transmits radio frequency (RF) energy (radio waves). The system that handles the call (the network) controls the power level at which the handset transmits.

- Further detailed information is given in this manual.

Exposure to radio frequency energy

Radio wave exposure and Specific Absorption Rate (SAR) information

- This handset model U990 has been designed to comply with safety, requirements for exposure to radio waves. This requirement is based on scientific guidelines that include safety margins designed to assure the safety of all persons, regardless of age and health
- The radio wave exposure guidelines employ a unit of measurement known as the Specific Absorption Rate, or SAR. Tests for SAR are conducted using a standardised method with the phone transmitting at its highest certified power level in all used frequency bands

- While there may be differences between the SAR levels of various LG phone models, they are all designed to meet the relevant guidelines for exposure to radio waves
- The SAR limit recommended by the International Commission on Non ionising Radiation Protection (ICNIRP), is 2W/kg averaged over ten (10) gramme of tissue
- The highest SAR value for this model phone when tested for use at the ear is 0.826 W/kg and when worn on the body, as described in this user guide, is 0.631 W/kg (body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.
- The SAR limit recommended by the Institute of Electrical and Electronics Engineers (IEEE), which is 1.6 W/kg averaged over one (1) gramme of tissue (for example USA, Canada, Australia and Taiwan).

Caring for your U990

Your U990 is designed to be rugged and reliable and to provide years of trouble-free service. Please observe the following general tips when using your handheld:

- Take care not to scratch the screen of your handheld. Keep the screen clean. When working with your U990, use the supplied stylus or plastic-tipped pens intended for use with a touch-sensitive screen. Never use an actual pen or pencil or other sharp object on the surface of the handheld screen.
- Your U990 is not waterproof and should not be exposed to rain or moisture. Under extreme conditions, water may enter the circuitry through the front panel buttons. In general, treat your U990 as you would a pocket calculator or other small electronic instrument.
- Take care not to drop your U990 or subject it to any strong impact. Do not carry your U990 in your back pocket: if you sit on it, you may damage it.
- Protect your U990 from temperature extremes. For example, do not leave your organizer on the dashboard of a car on a hot day or on a day when temperatures are below freezing, and keep it away from heaters and other heat sources.
- Do not store or use your U990 in any location that is extremely dusty, damp, or wet.
- Use a soft, damp cloth to clean your U990. If the surface of the U990 screen becomes soiled, clean it with a soft cloth moistened with a diluted window-cleaning solution.